

FIG. 1

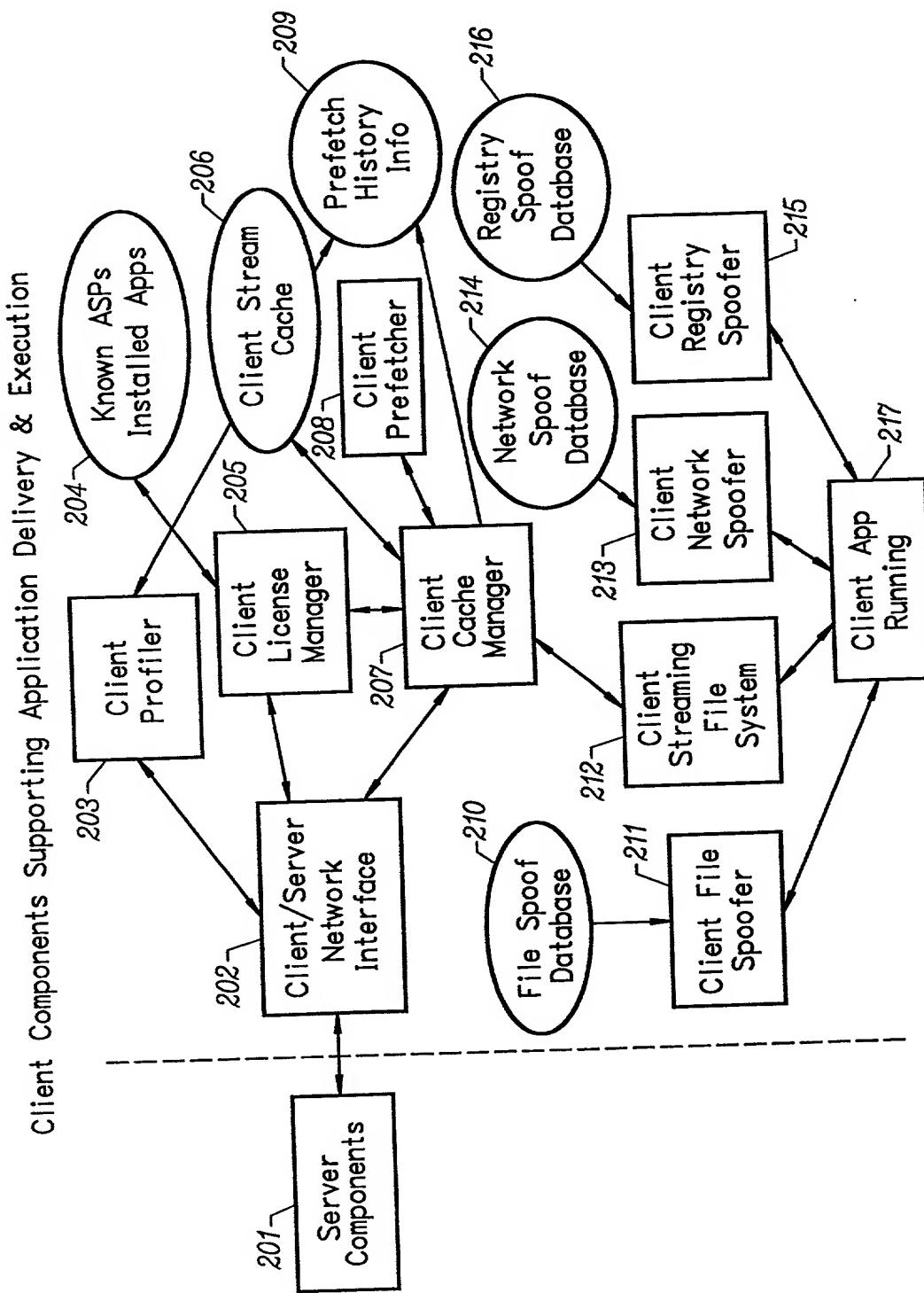


FIG. 2

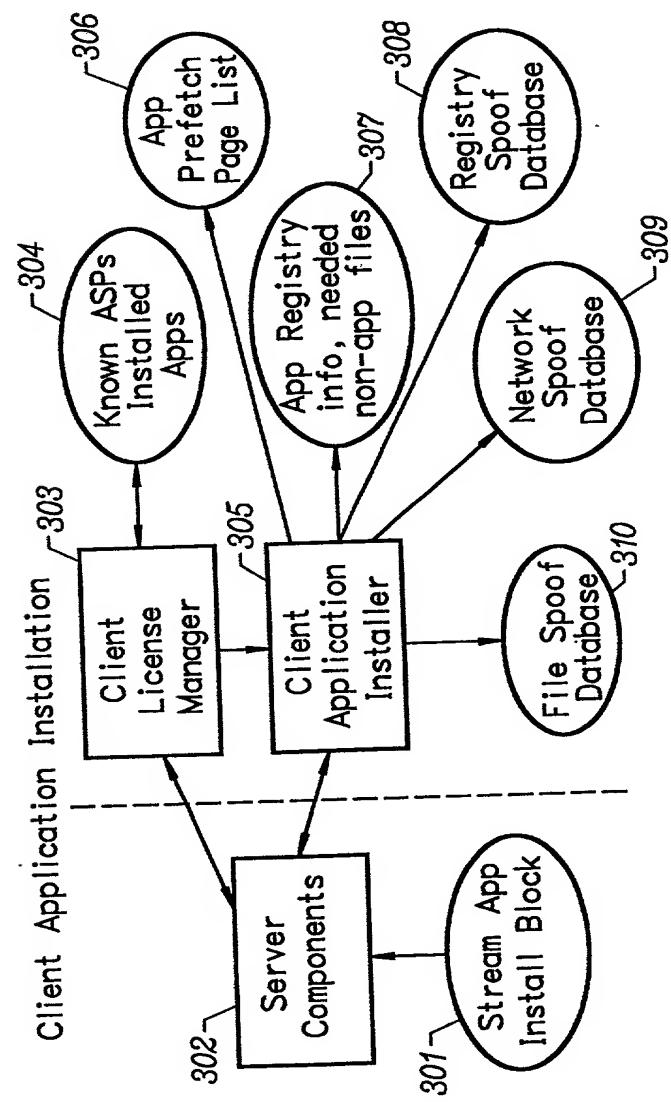


FIG. 3

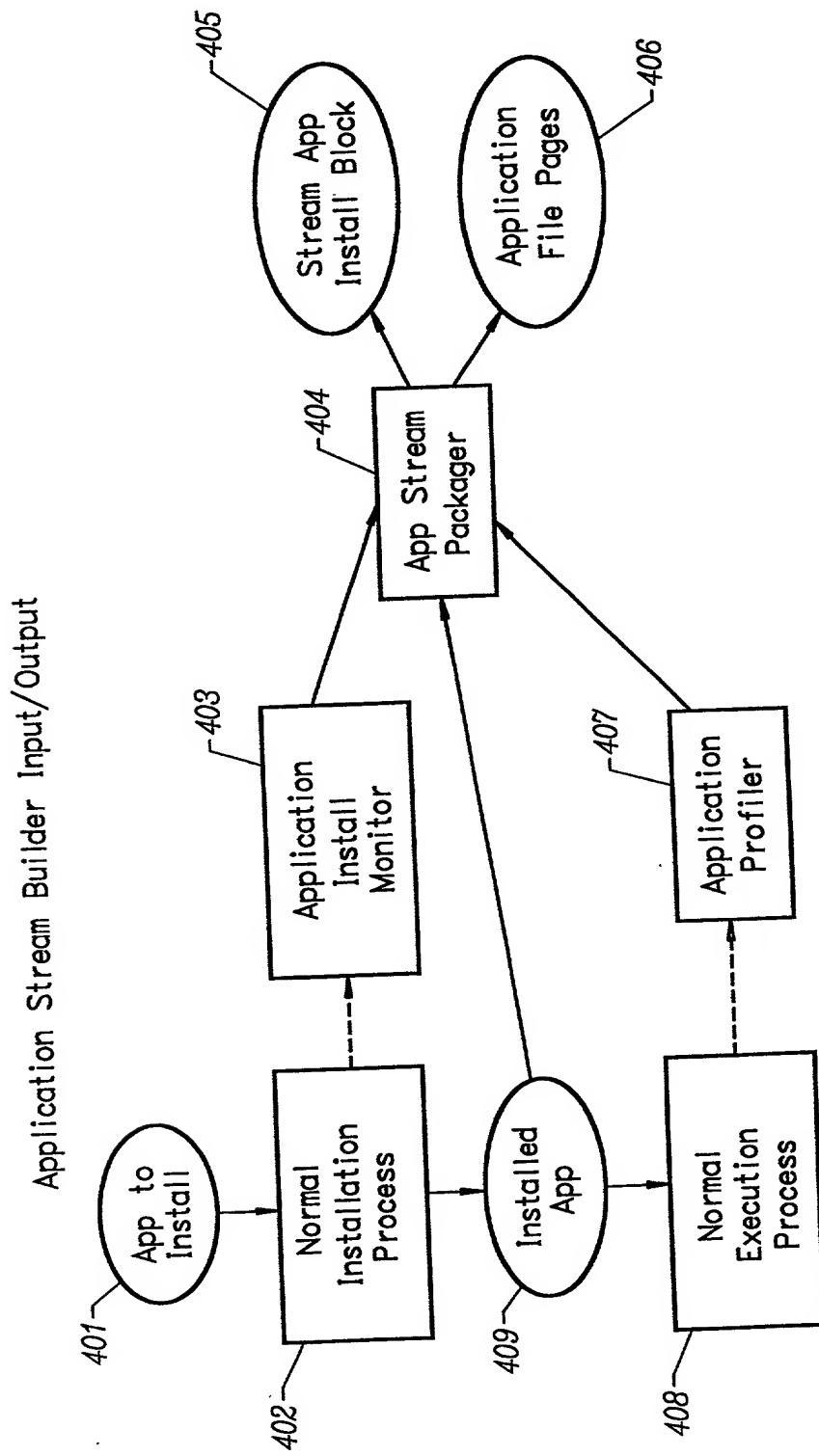


FIG. 4

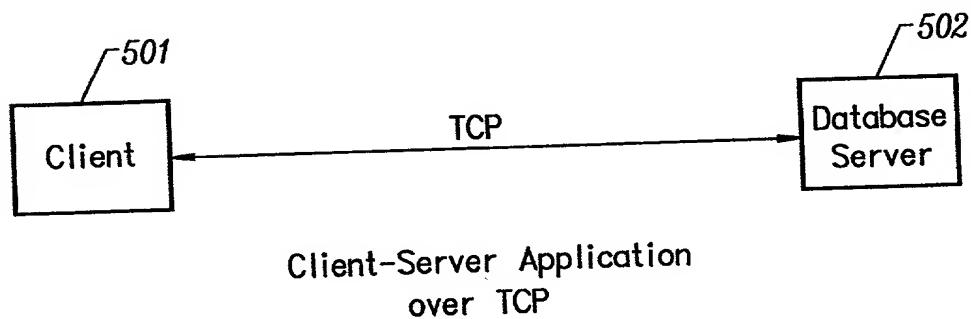


FIG. 5A

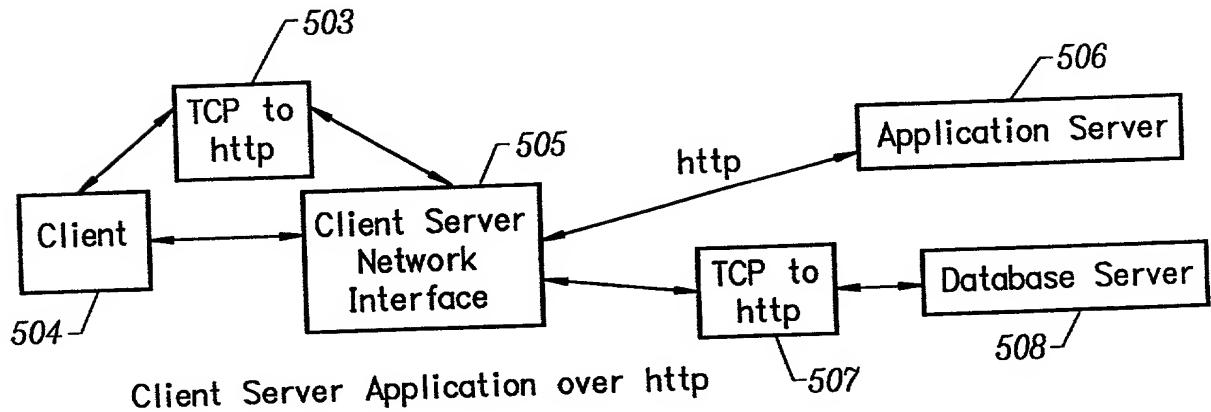


FIG. 5B

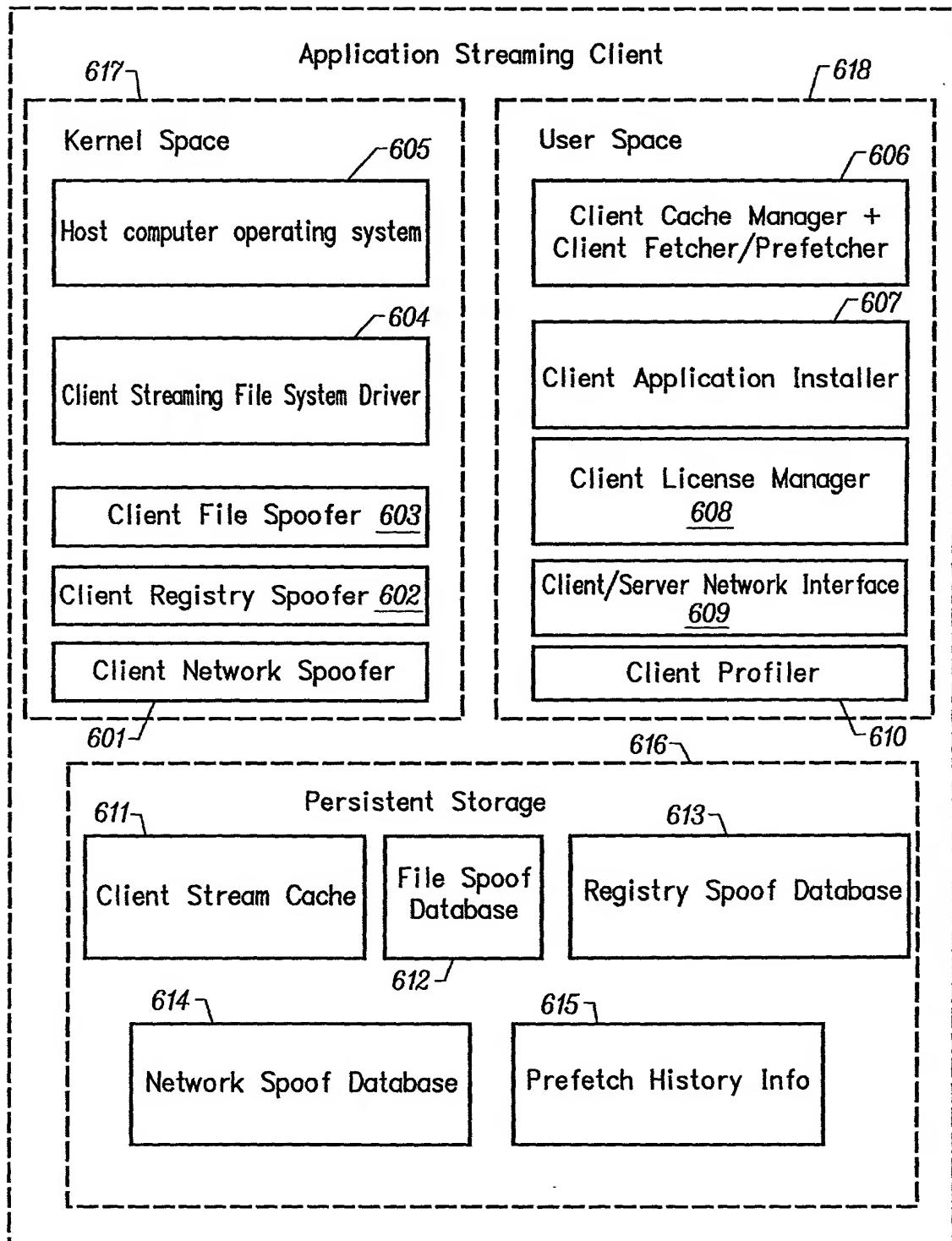


FIG. 6A

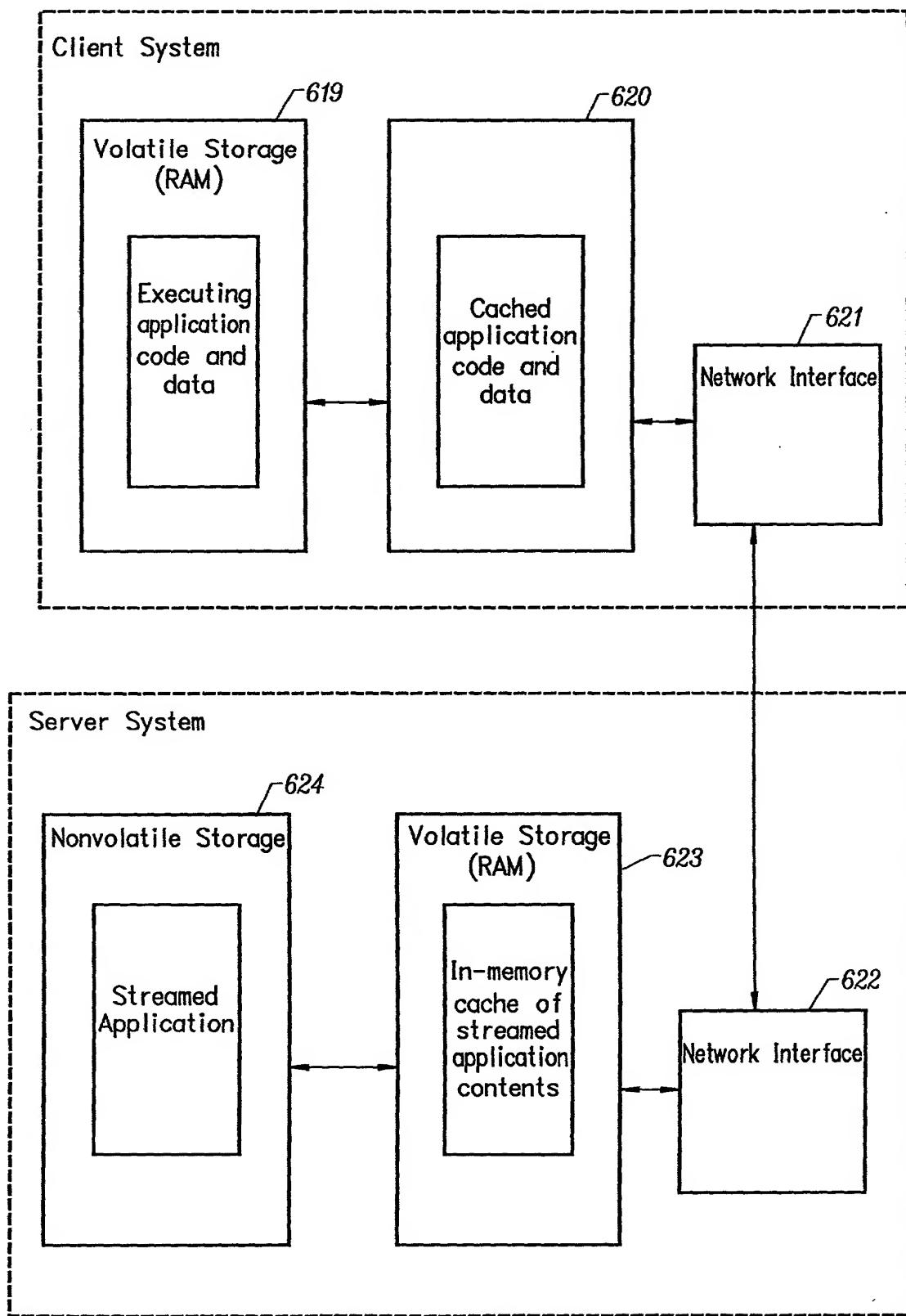


FIG. 6B

701 702 703 704 705

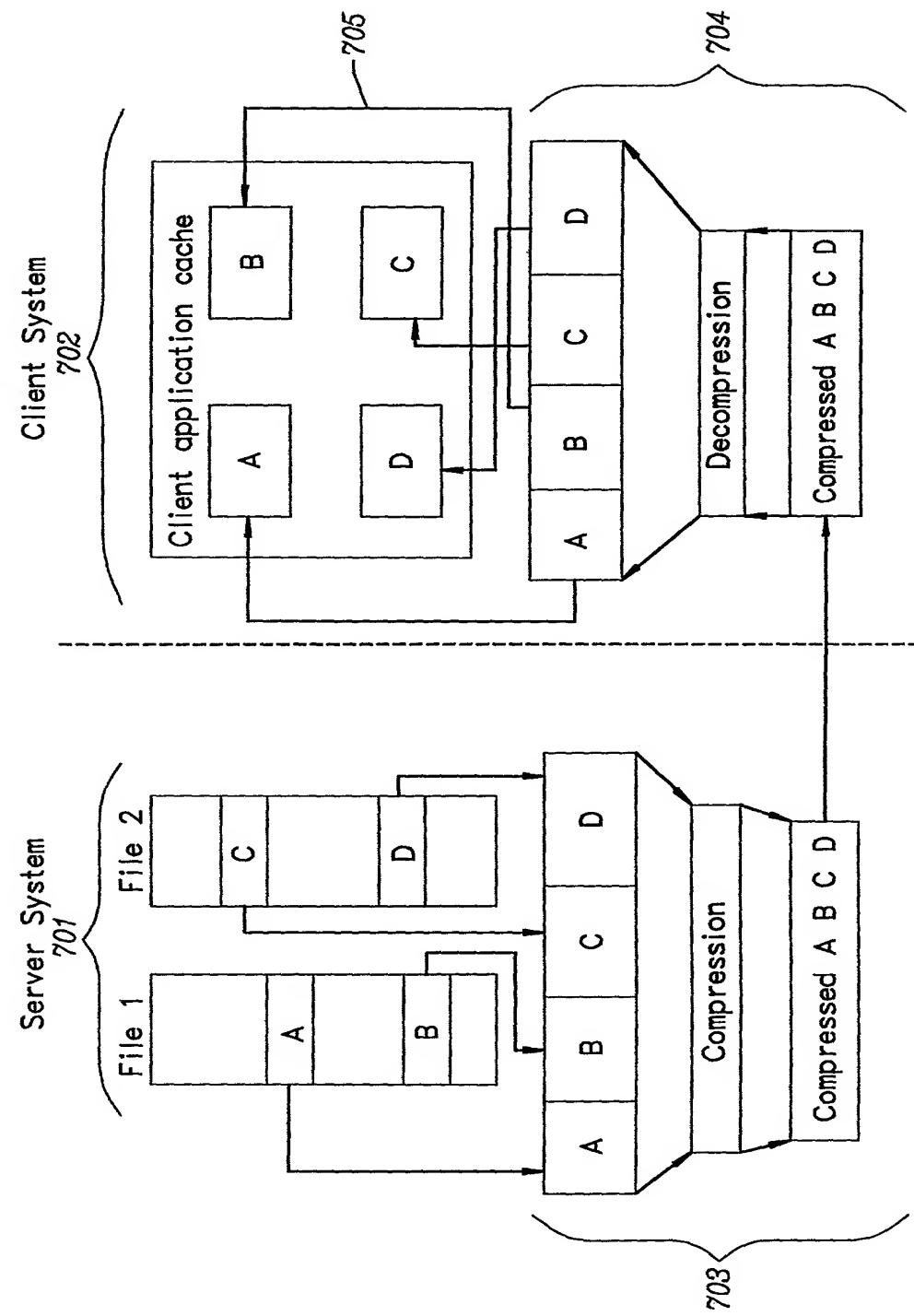


FIG. 7A

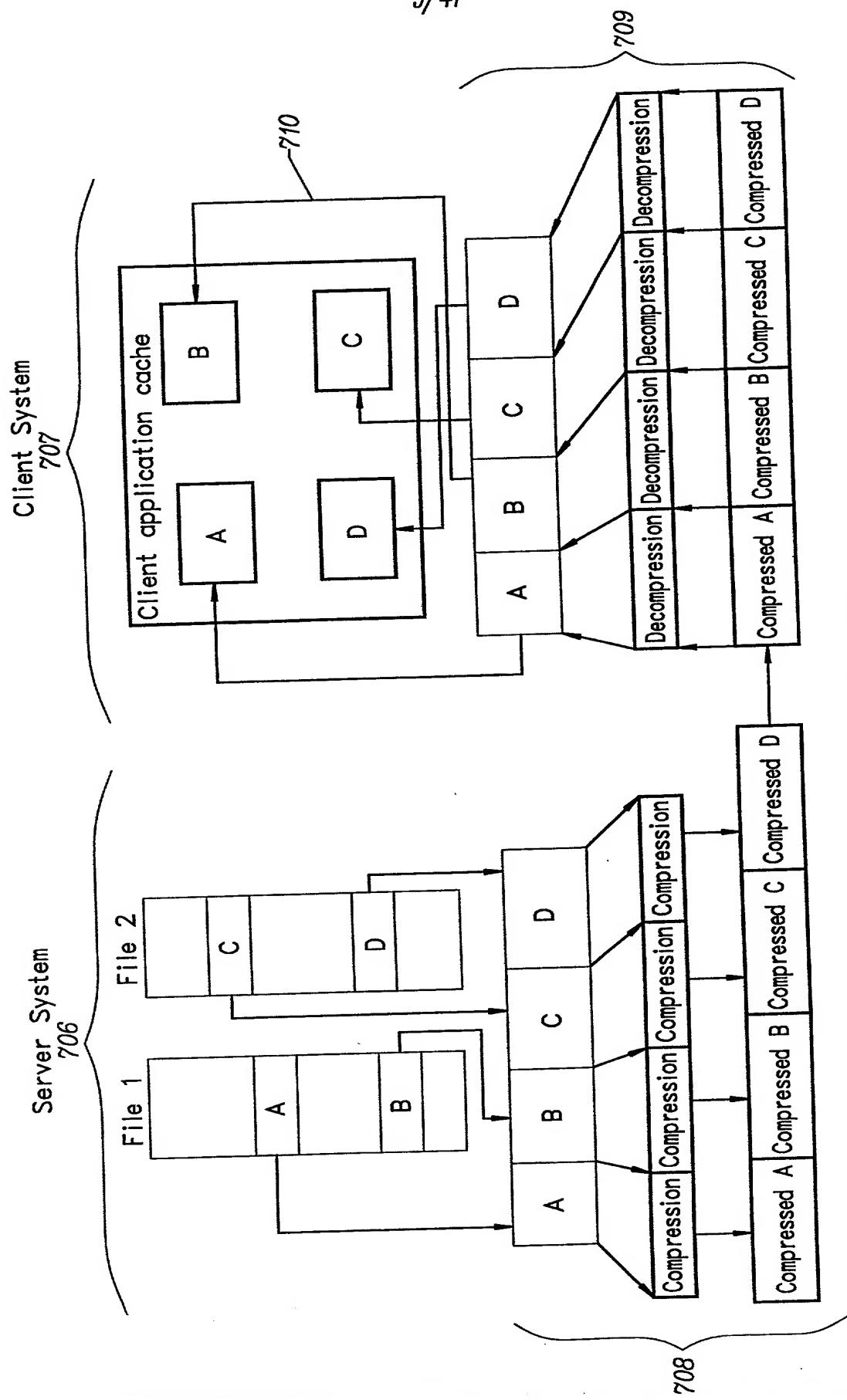


FIG. 7B

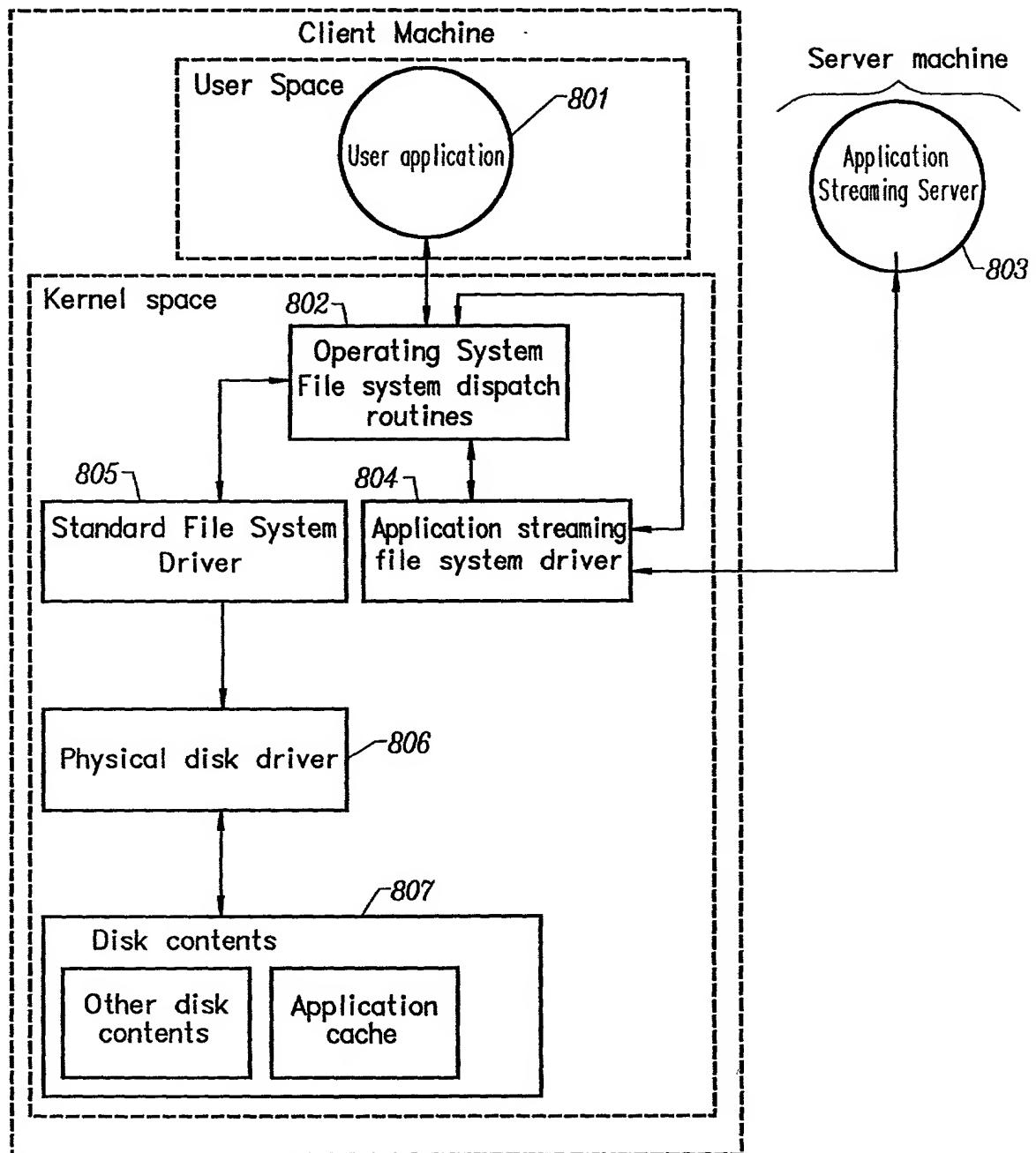


FIG. 8

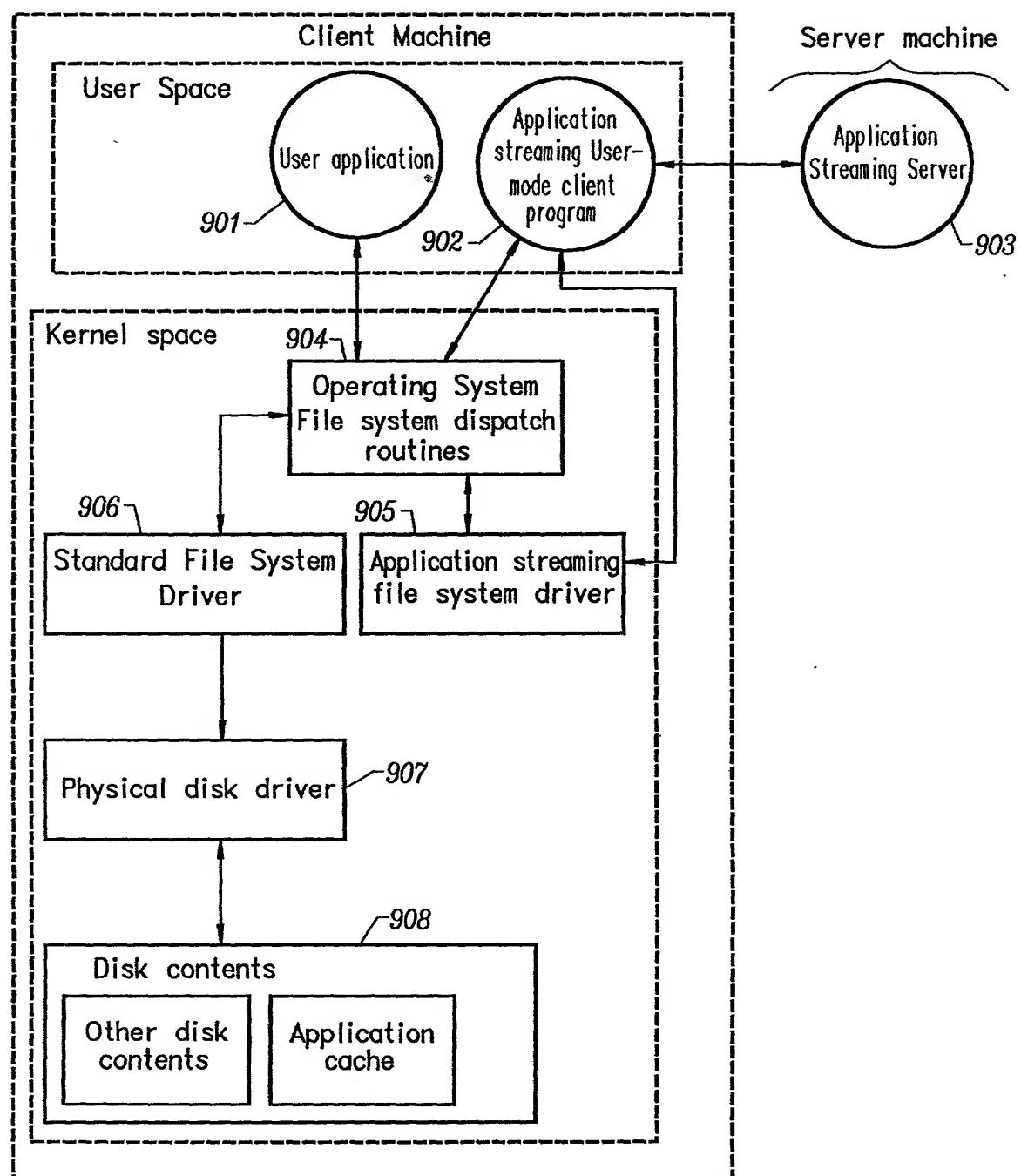


FIG. 9

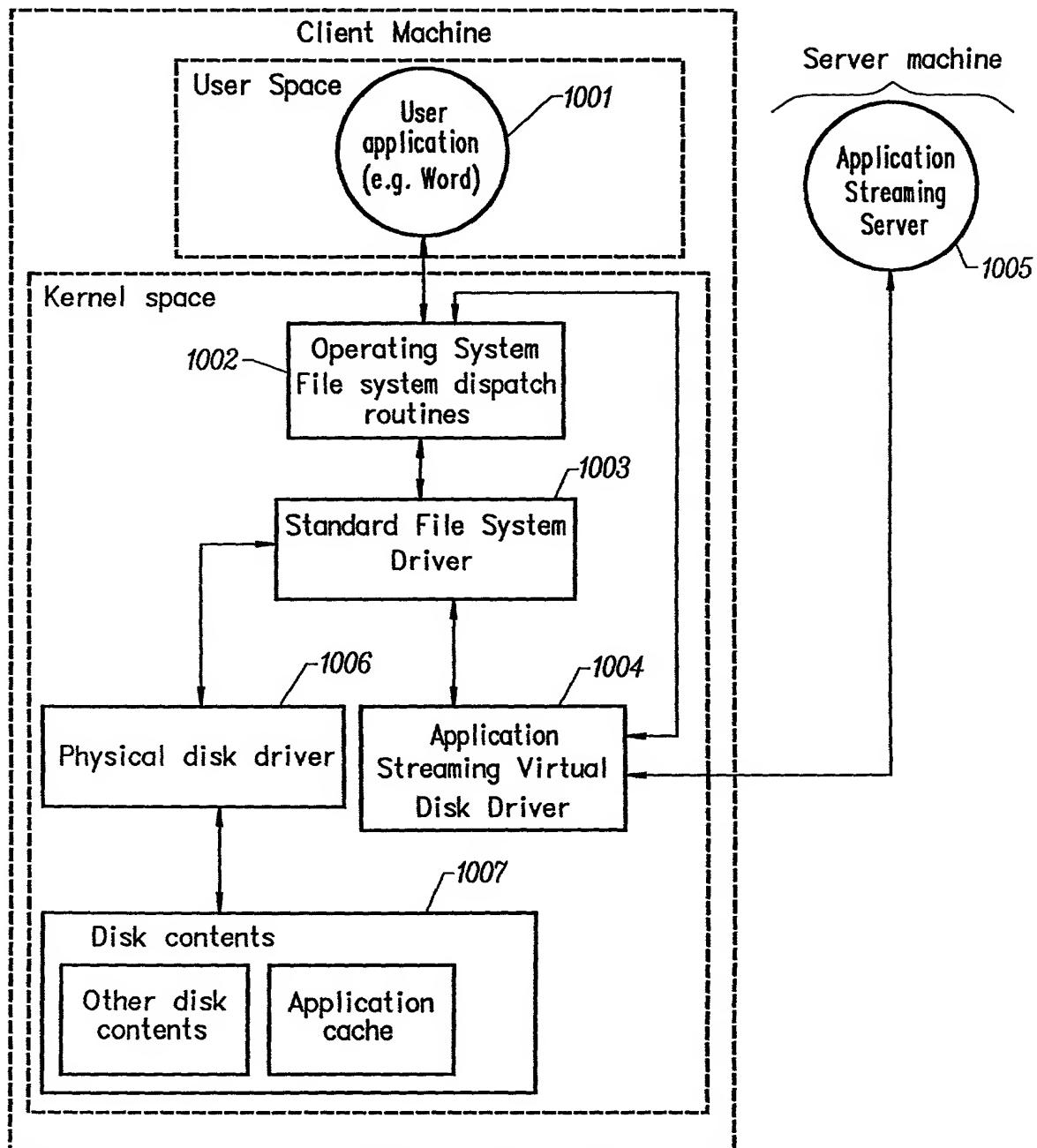


FIG. 10

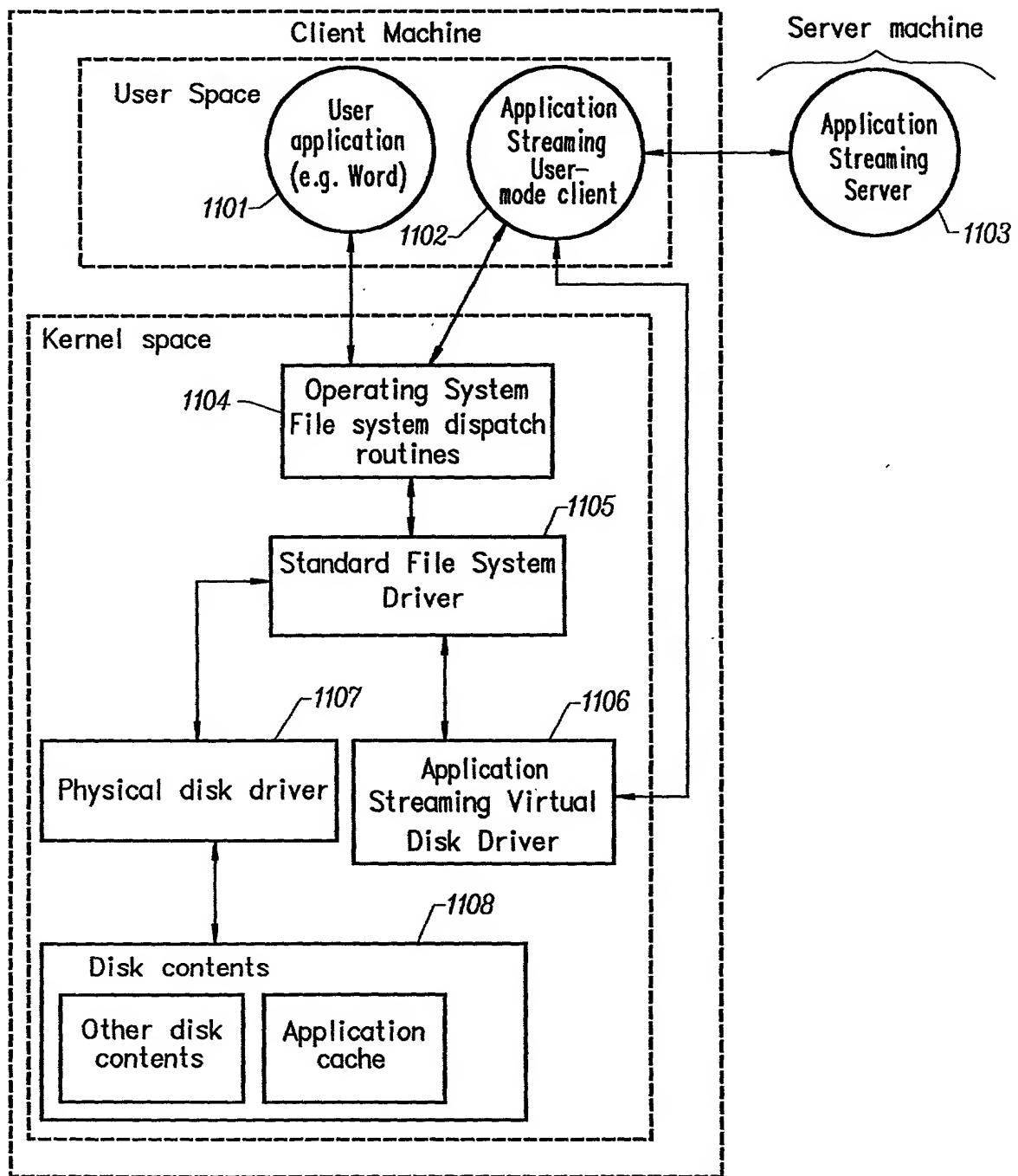


FIG. 11

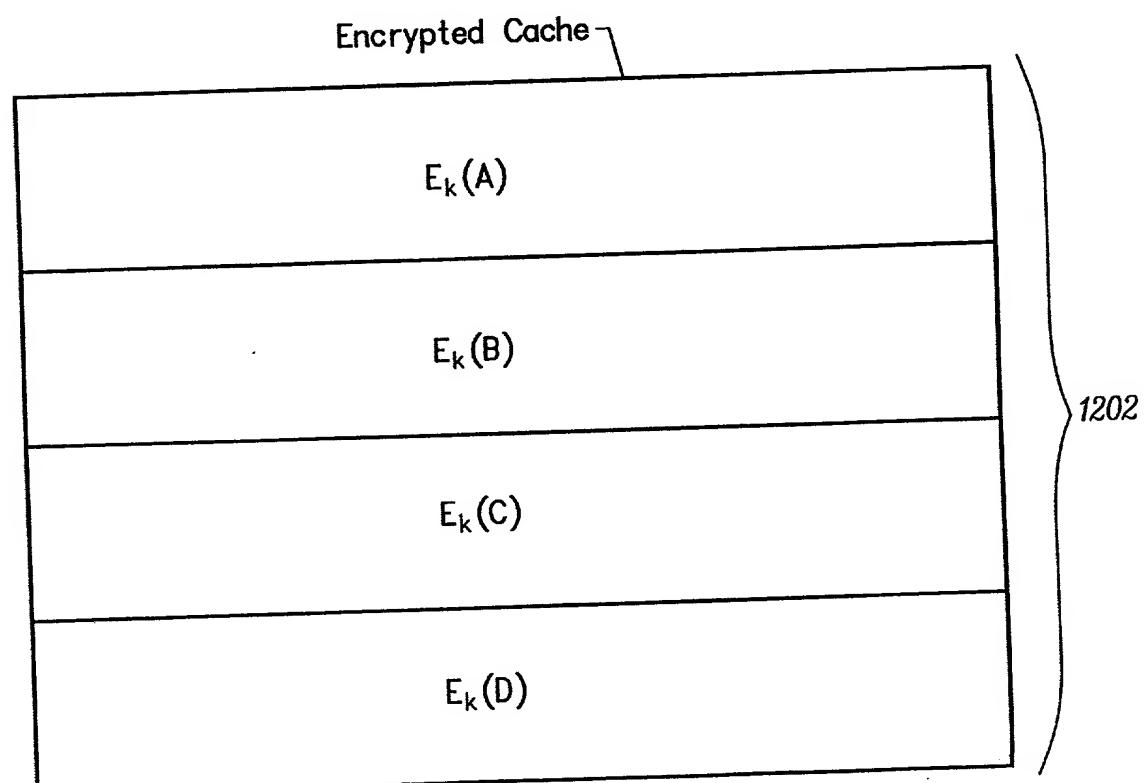
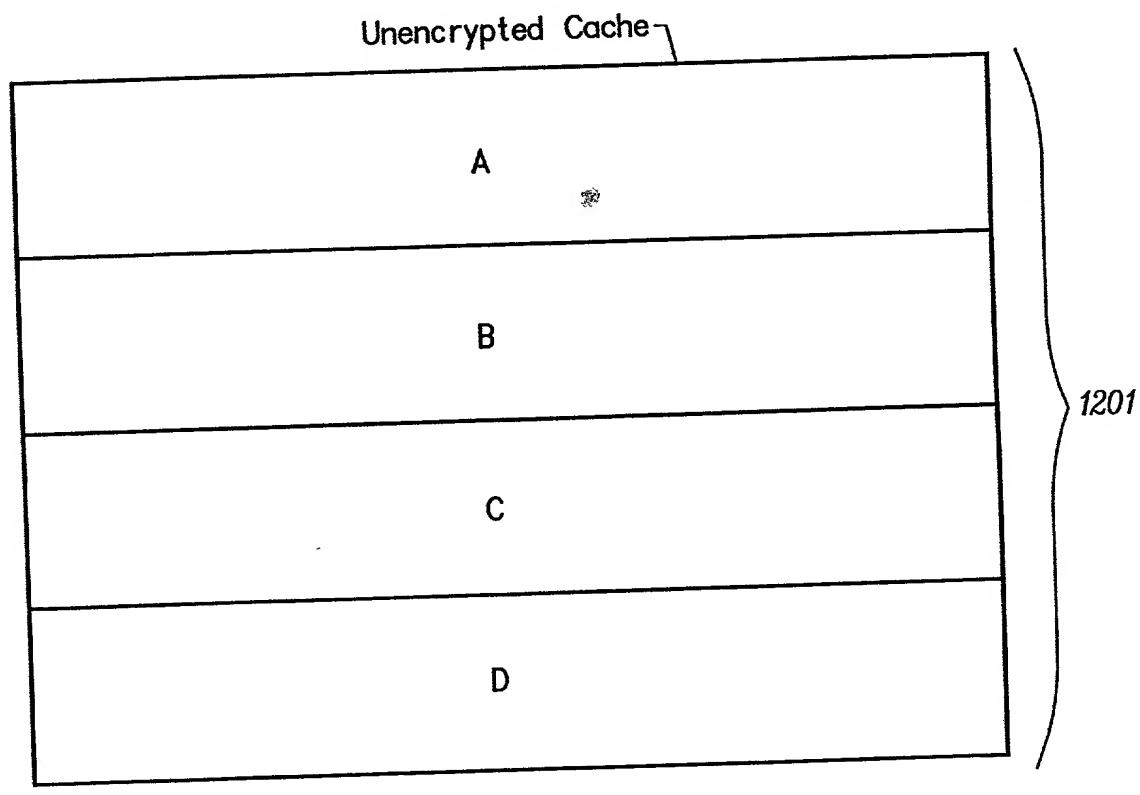


FIG. 12

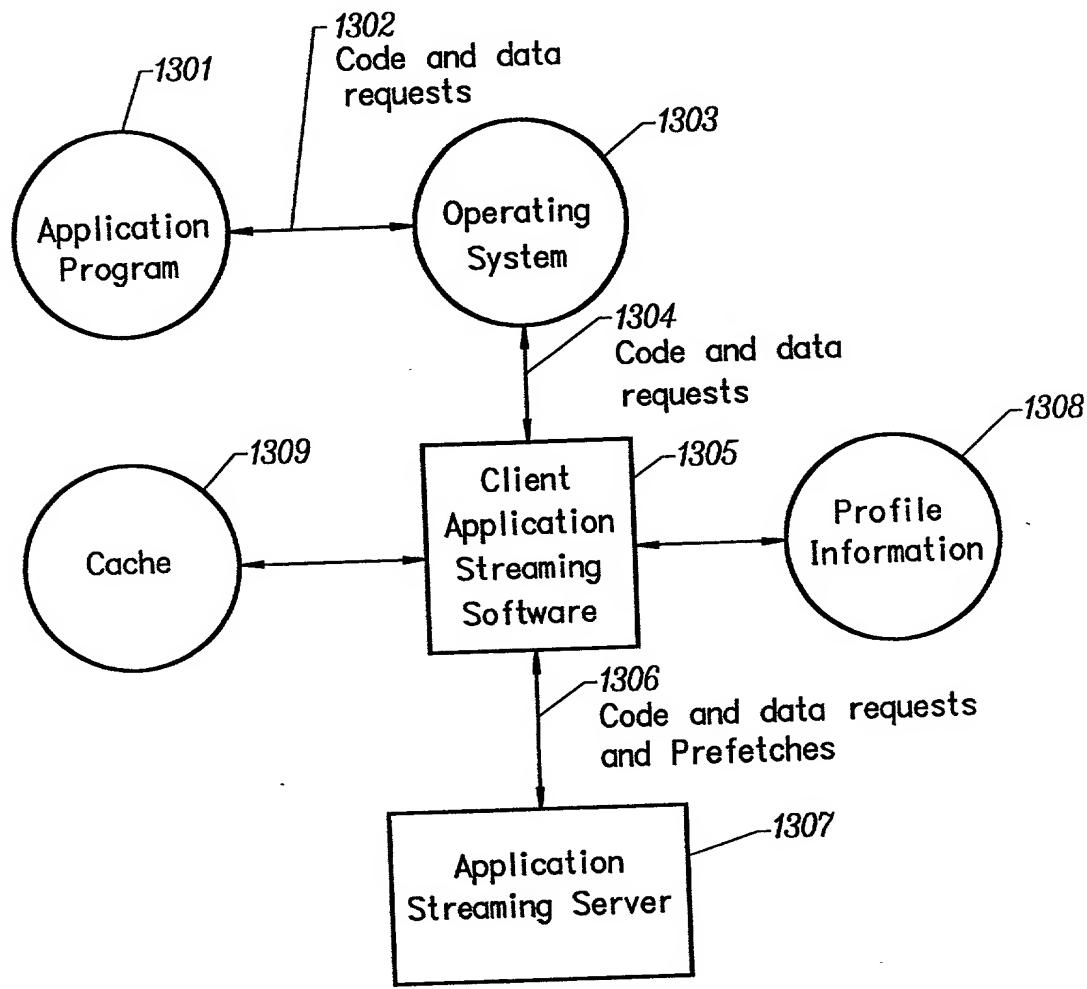


FIG. 13

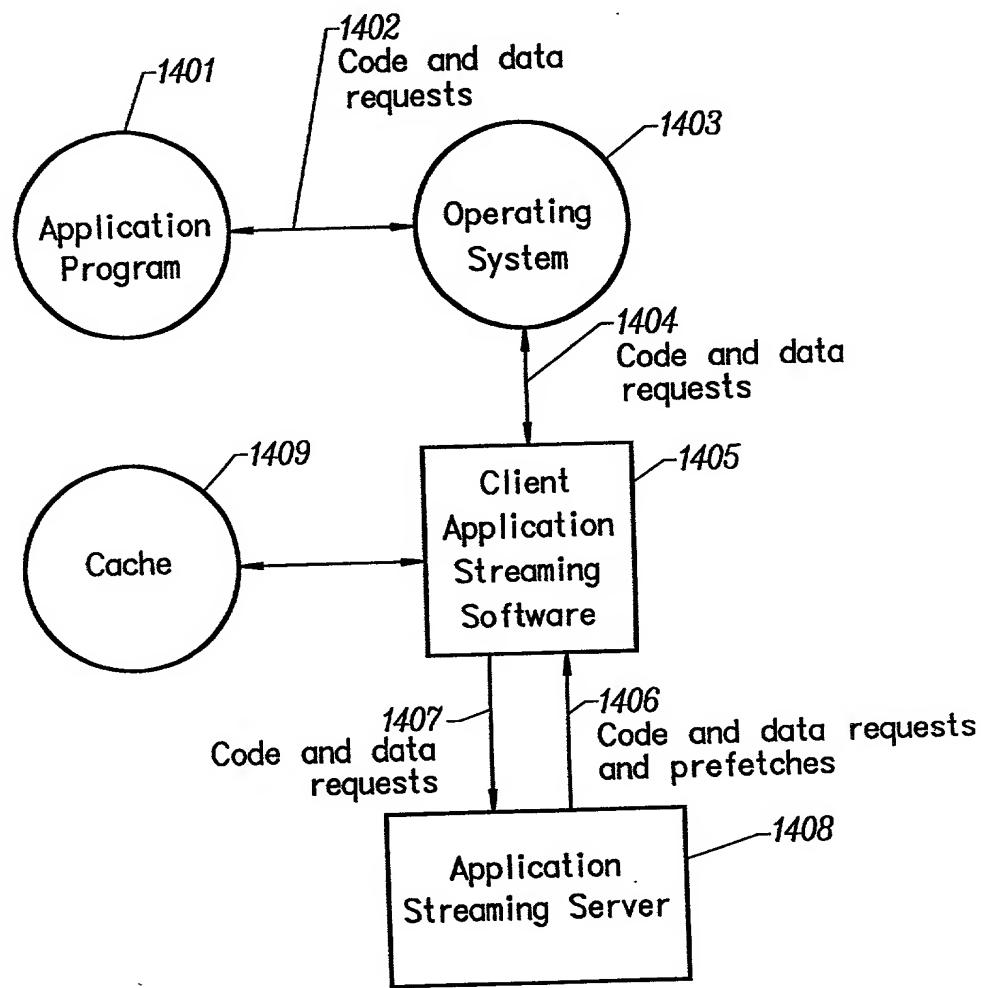


FIG. 14

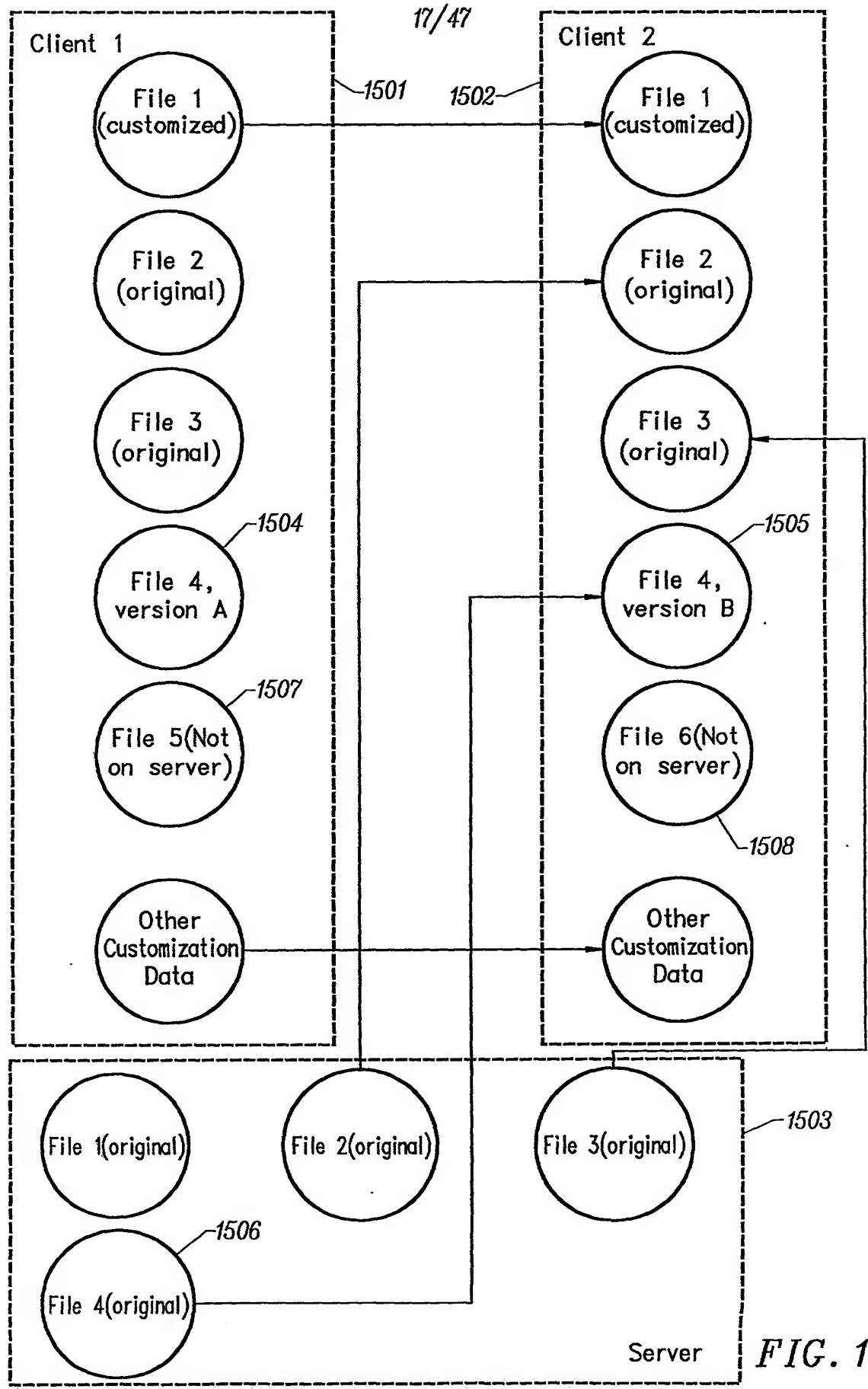


FIG. 15

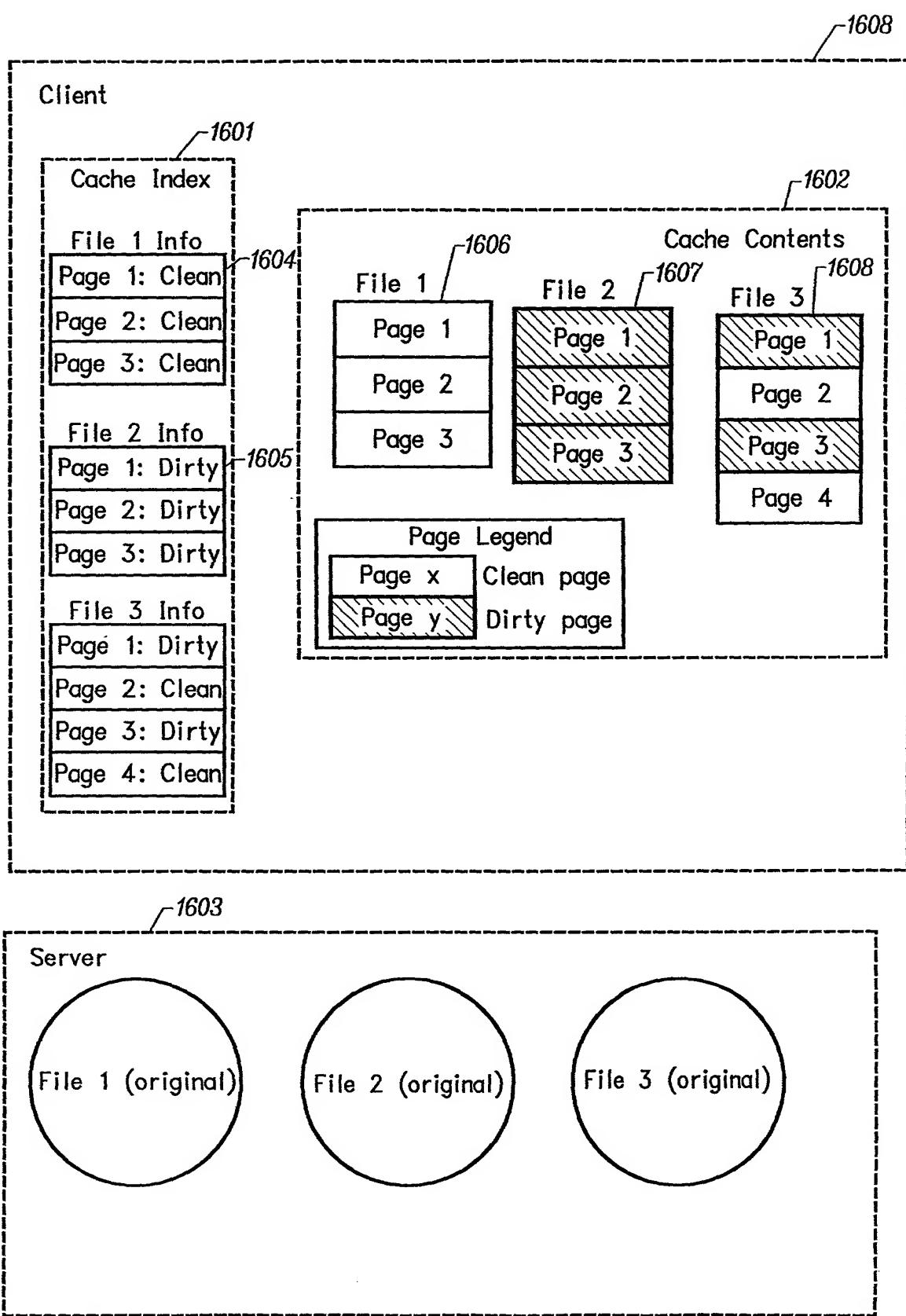


FIG. 16

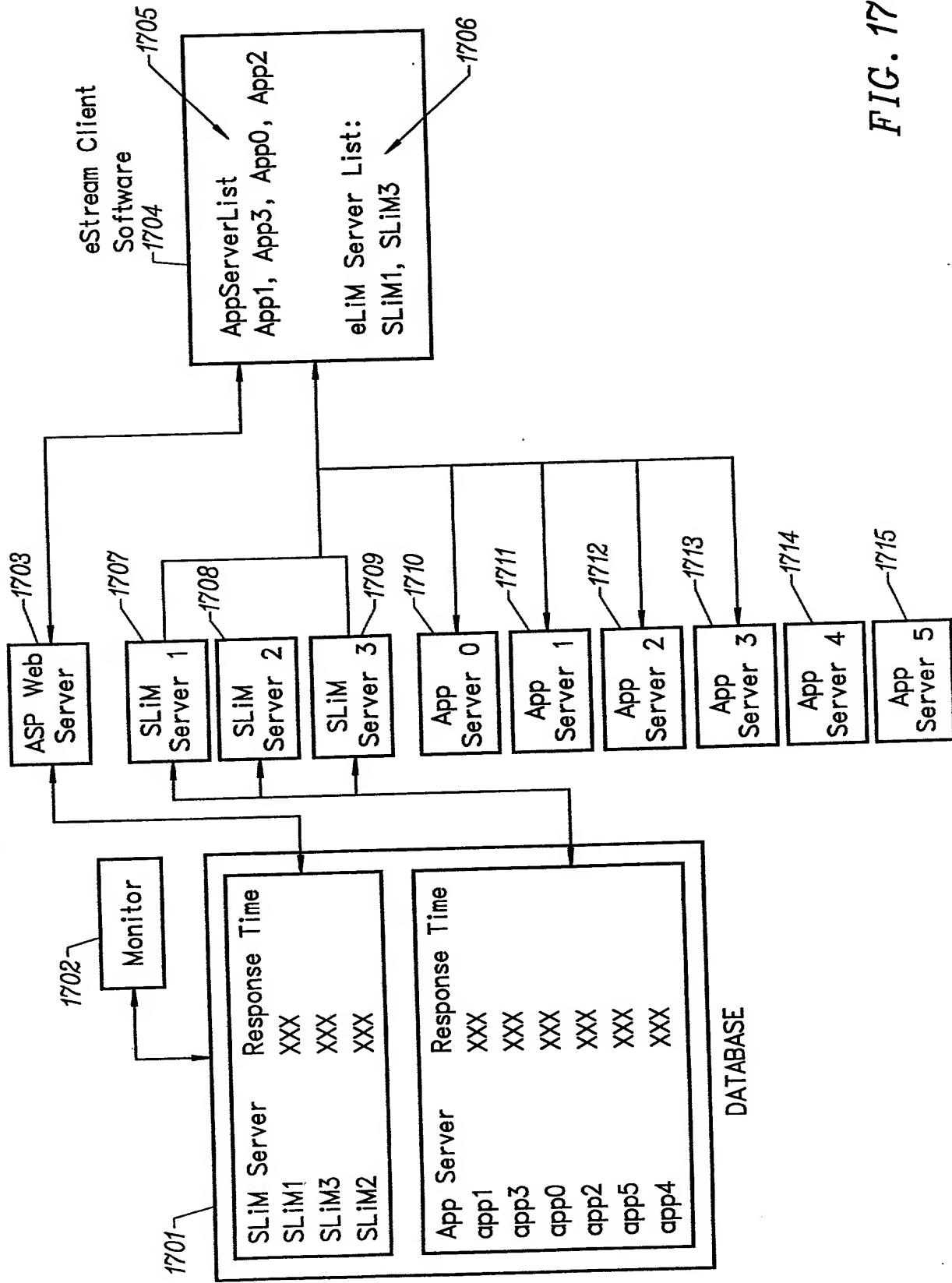
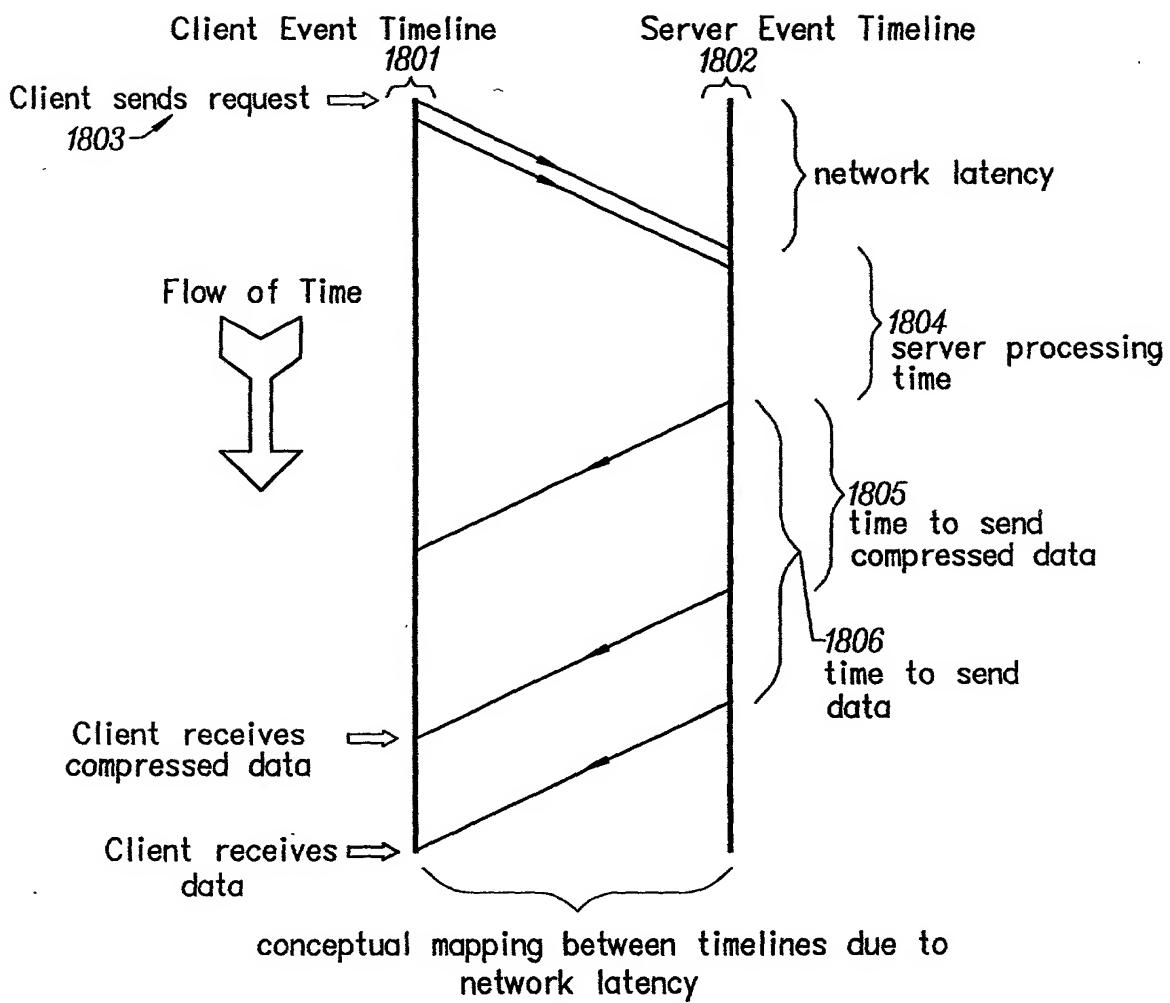


FIG. 17



Client receives data sooner if it is compressed

FIG. 18

## Pre-Compression

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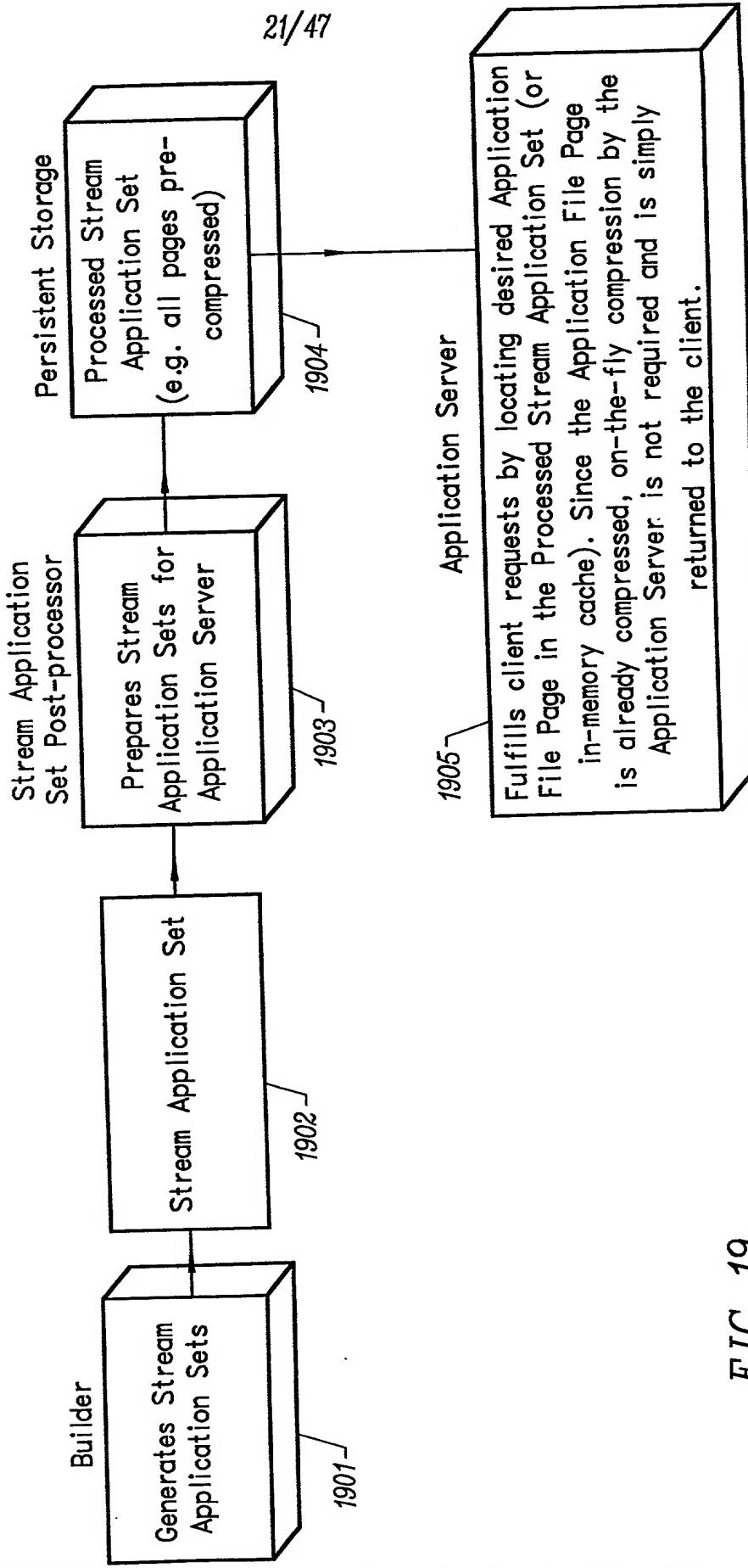
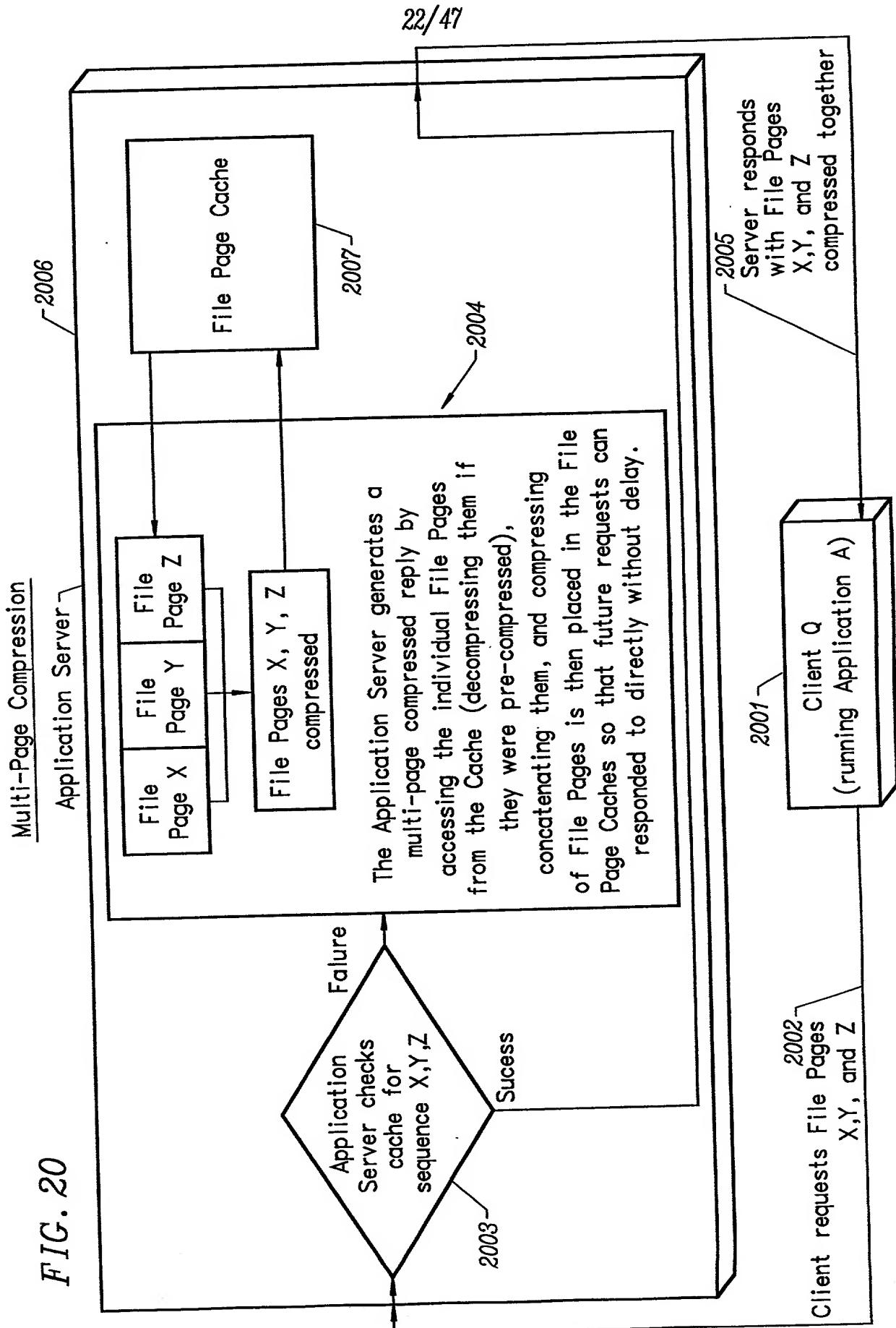


FIG. 19

FIG. 20



## Profile-based Prefetching

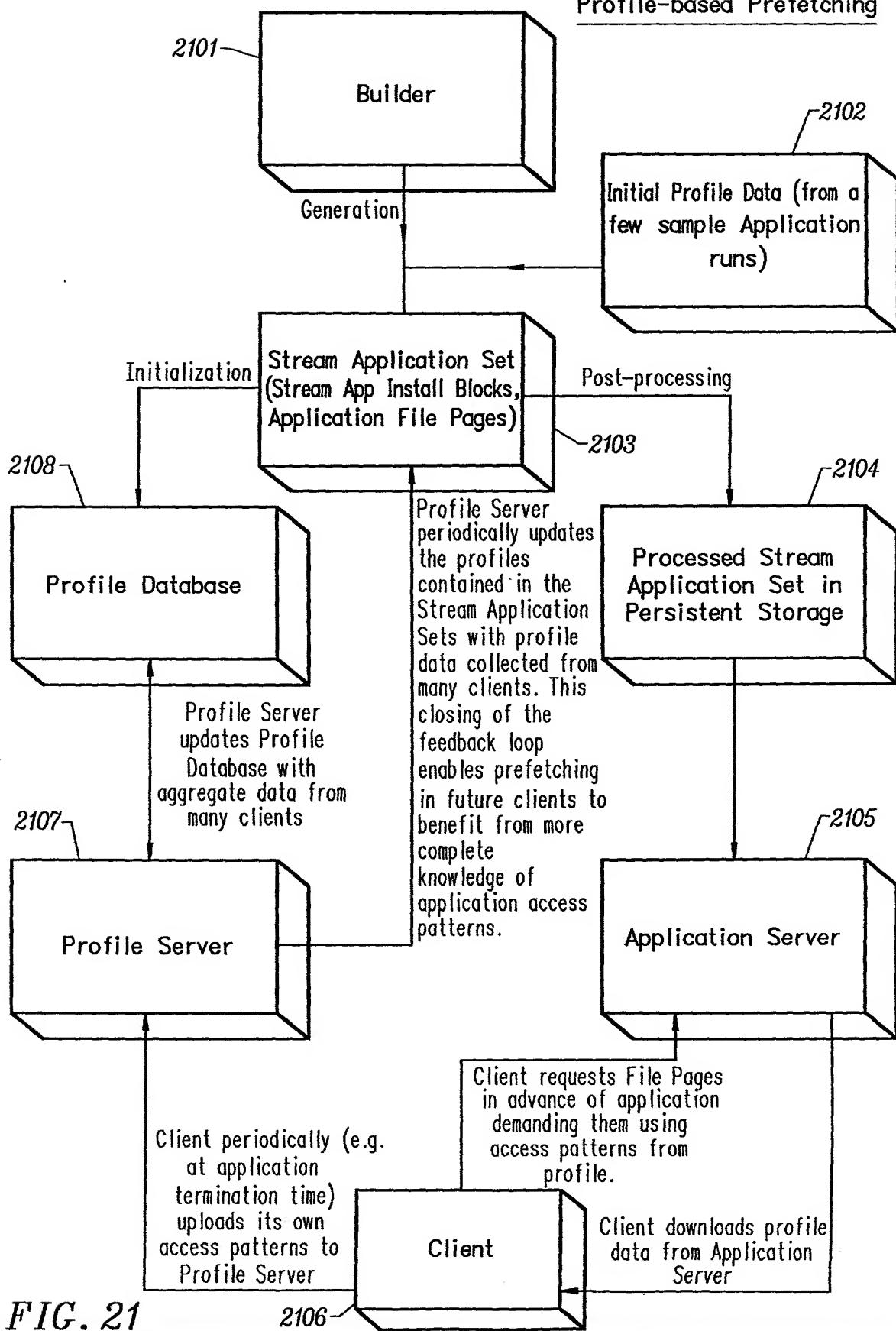


FIG. 21

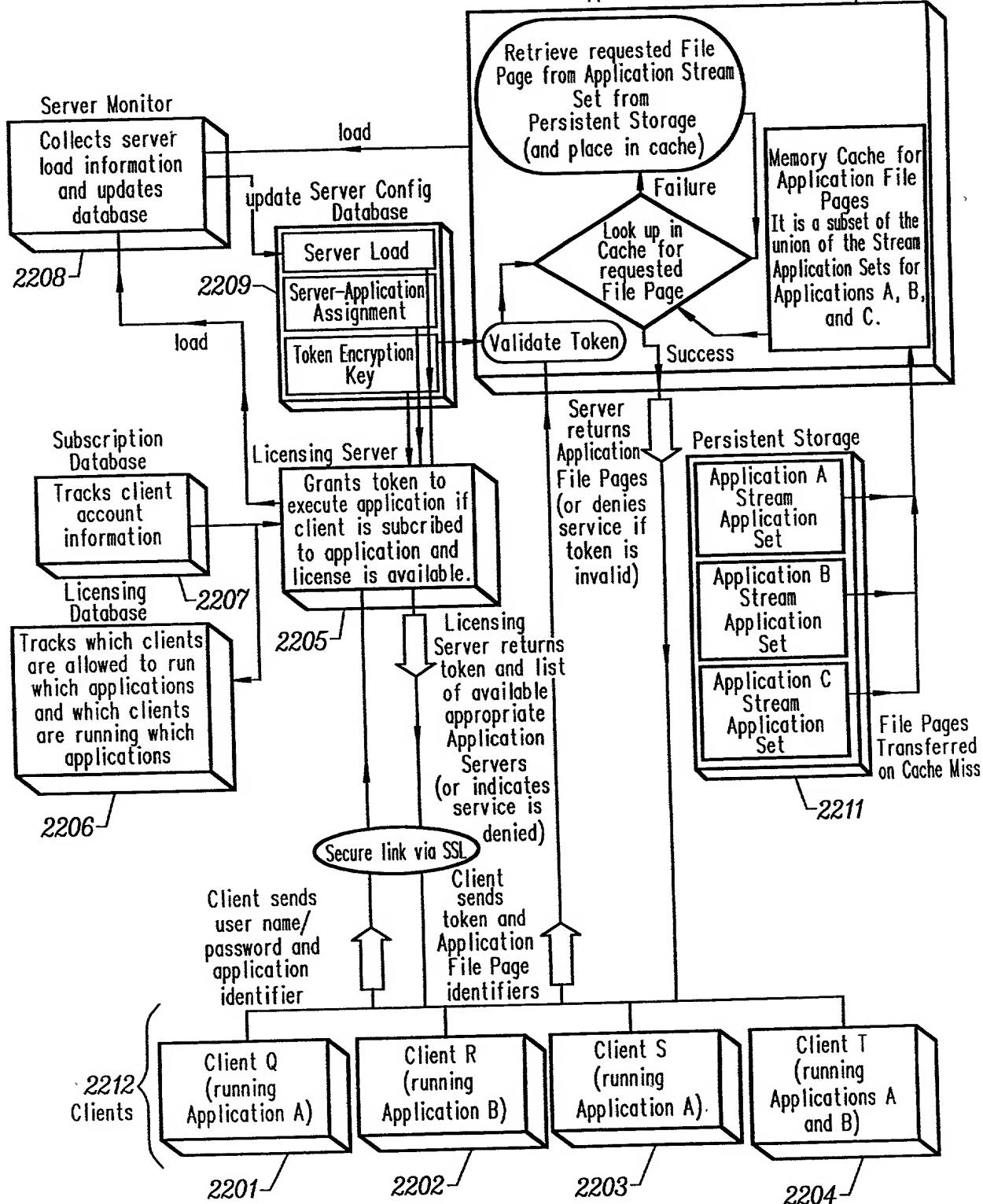


FIG. 22

## Builder Install Monitor (IM) Control Flow Diagram

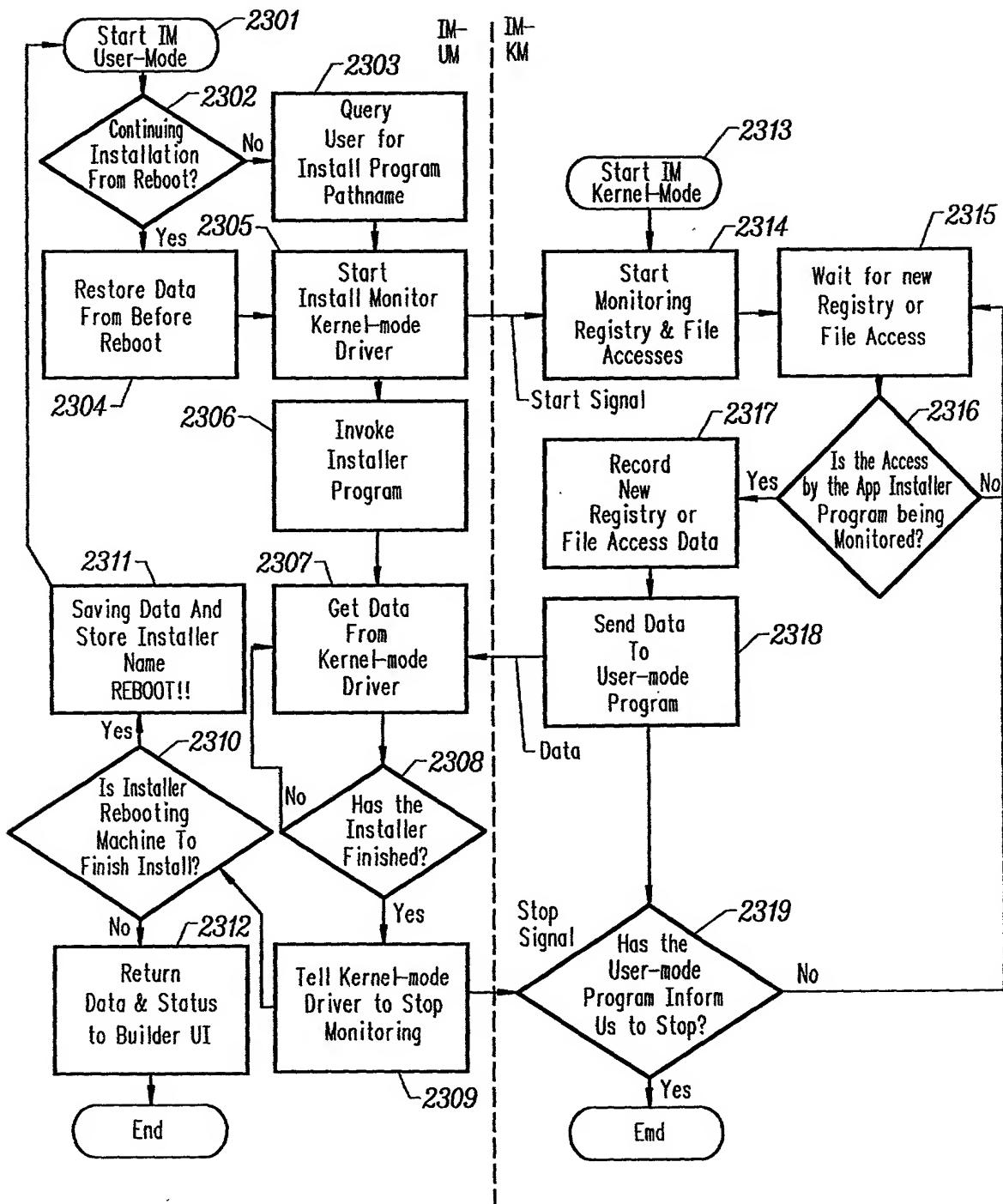


FIG. 23

## Builder Application Profiler (AP) Control Flow Diagram

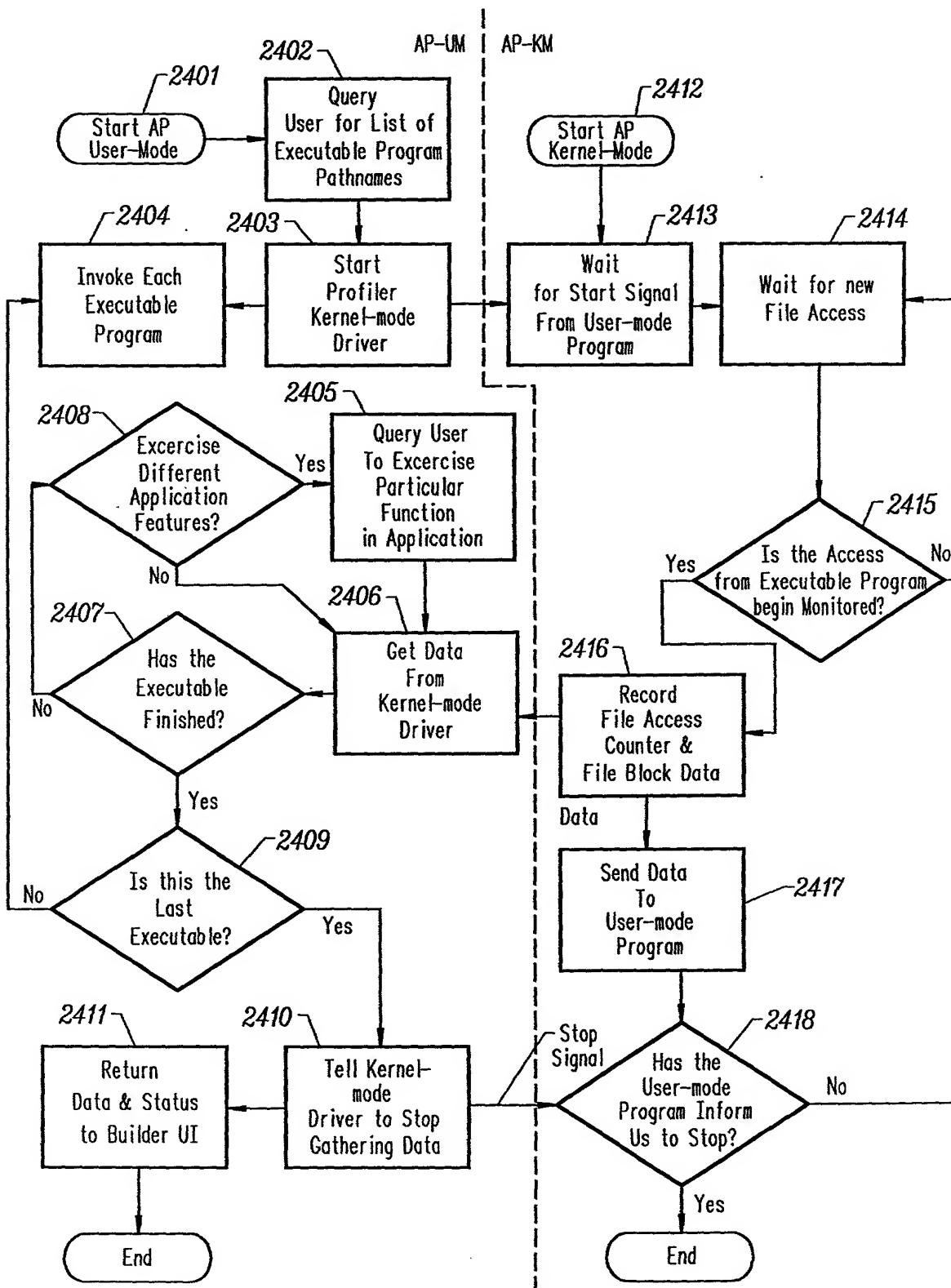


FIG. 24

## Builder SAS Packager (SP) Control Flow Diagram

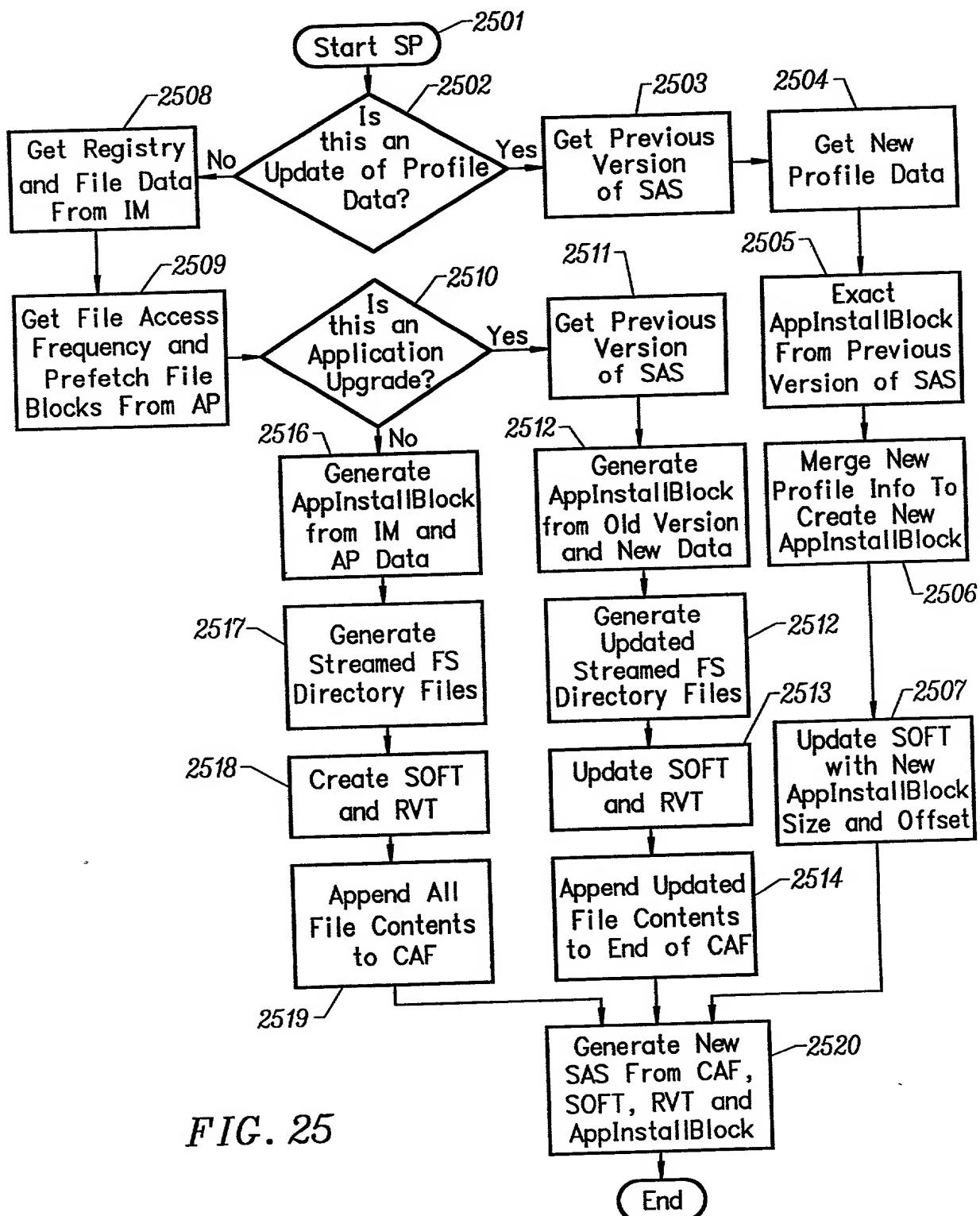


FIG. 25

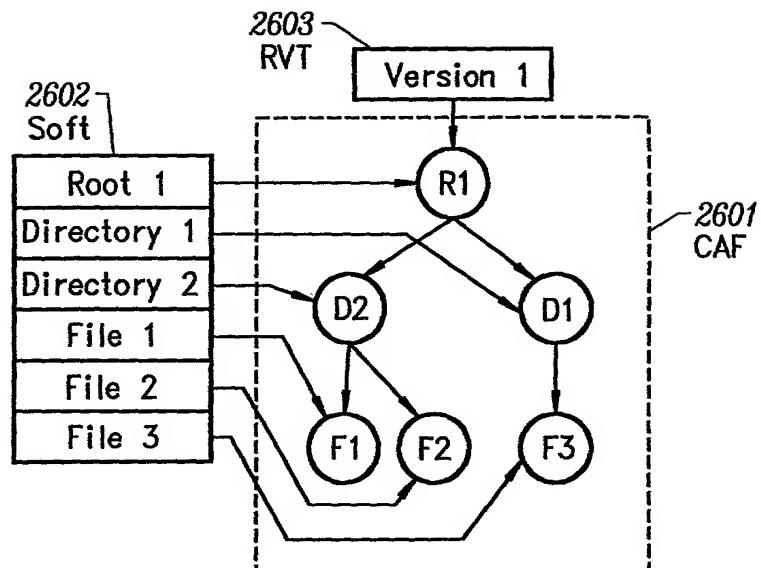


FIG. 26A

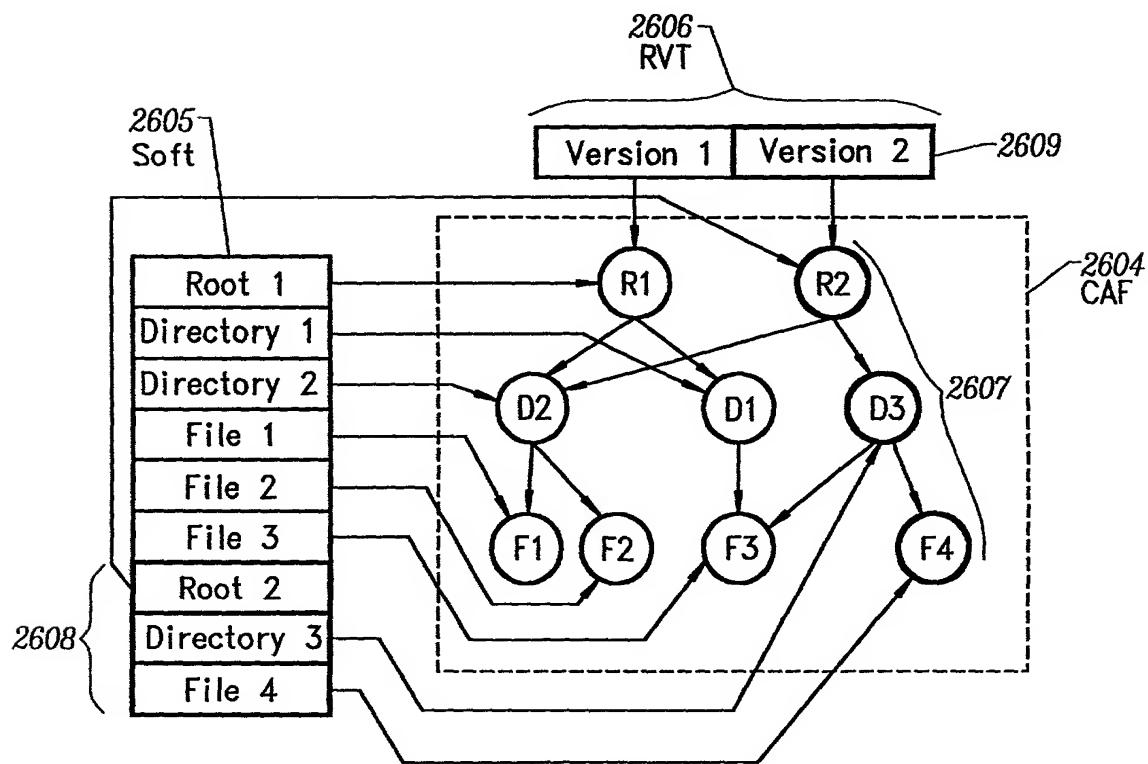


FIG. 26B

Streamed Application Set (SAS) Builder Data Flow Diagram

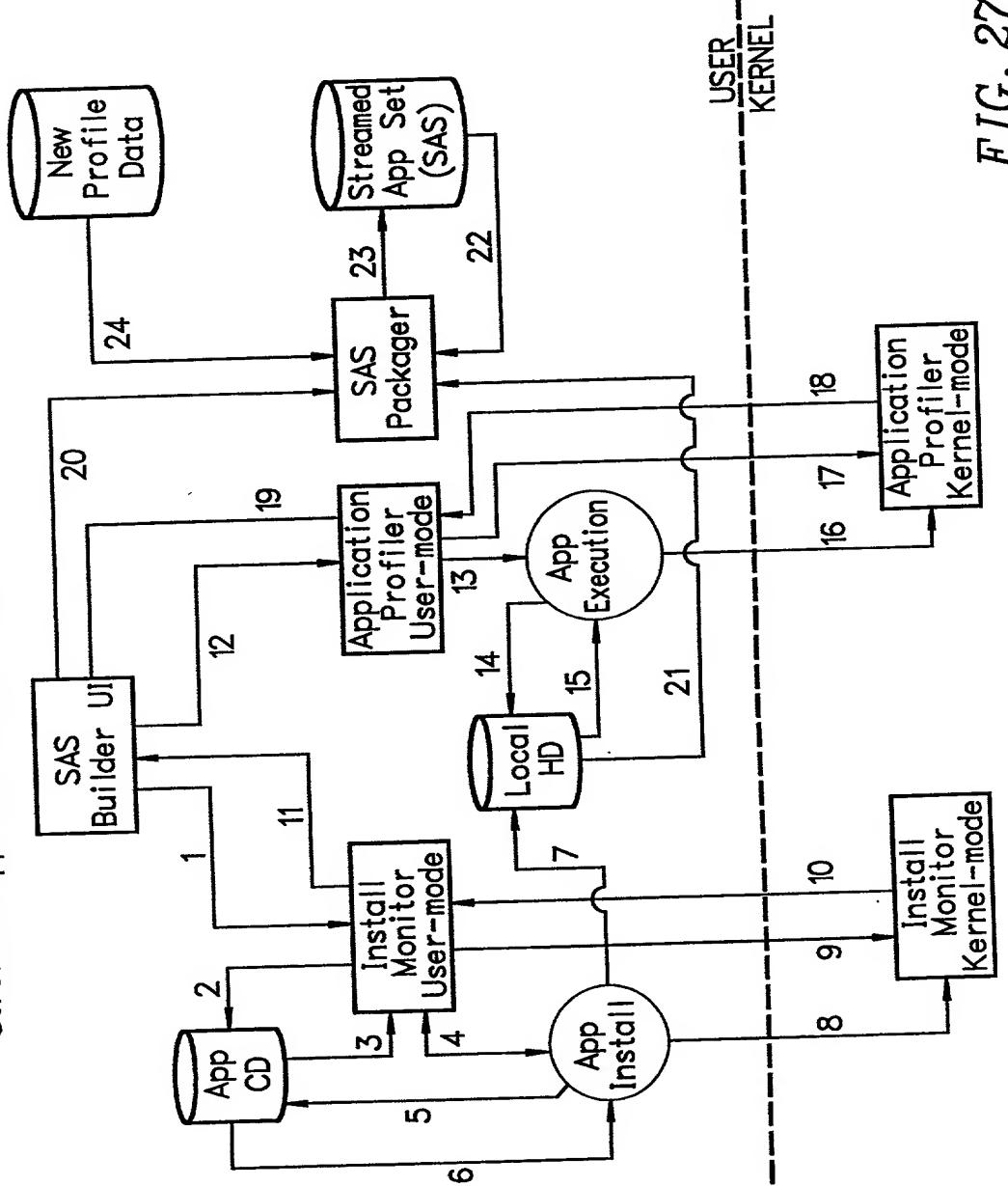


FIG. 27

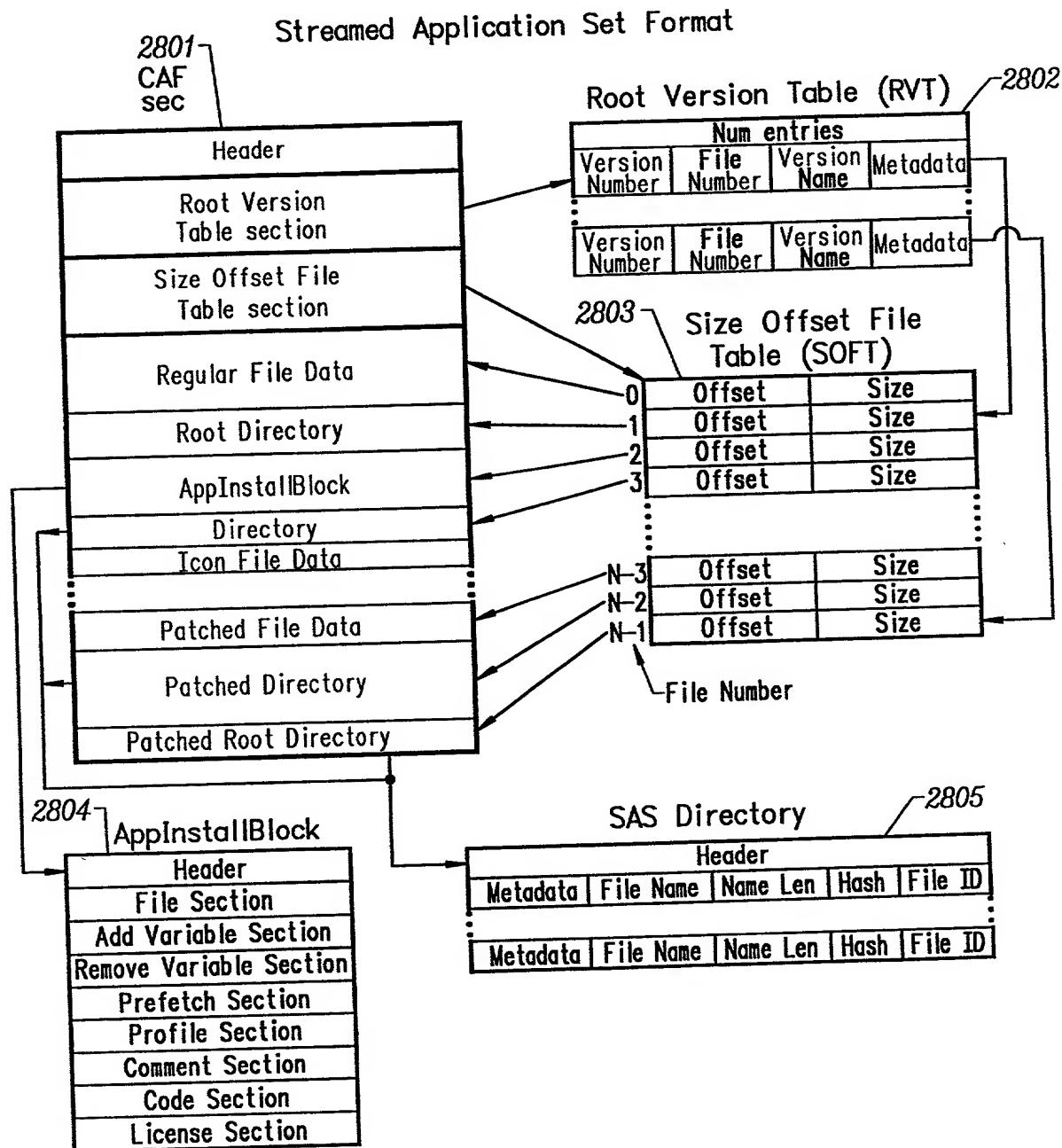


FIG. 28

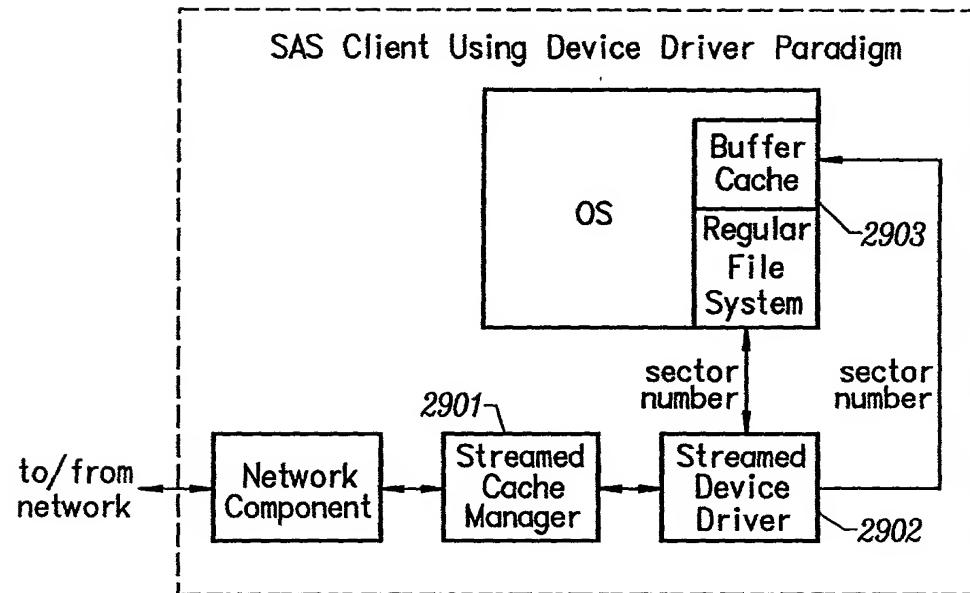


FIG. 29

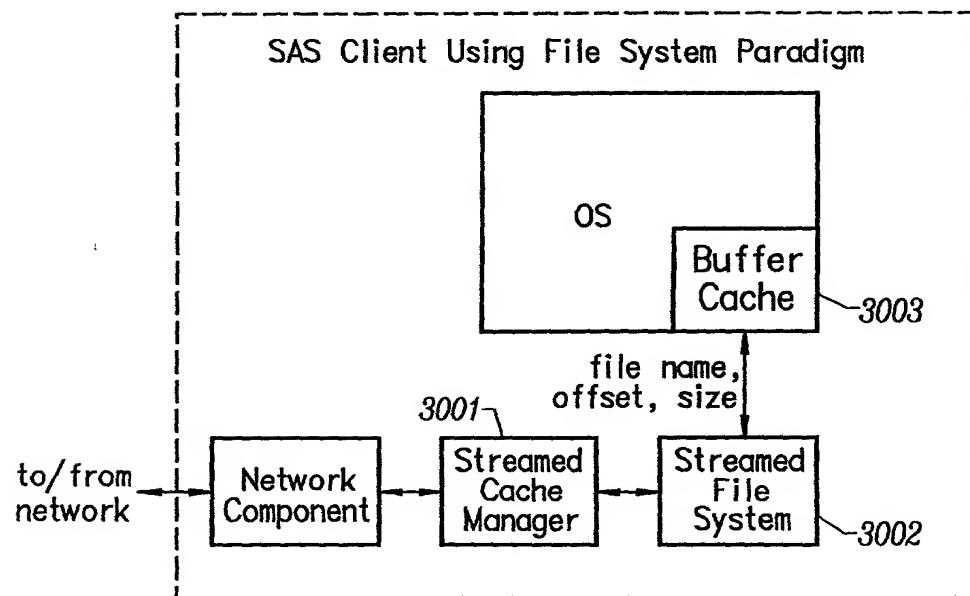


FIG. 30

Diagram illustrating the structure of the 3101 Header (16 bytes) and its components:

A/B Version		AppID (GUID)				
AppID cont.		Version No	Client OS bitmap		Client OS ServicePack	
Header Byte Size	Number Sections	Section 1 Type (Files)		Section 1 Byte Offset	Section 1 Byte Size	
Section 2 (Registry)		Section 2 Byte Offset		Section 2 Byte Size	Section 3 (Prefetch)	
Section 3 Byte Offset		Section 3 Byte Size		Section 4 (Profile)	Section 4 Byte Offset	
Section 4 Byte Size		Section 5 (Comments)		Section 5 Byte Offset	Section 5 Byte Size	
Section 6 (Code)		Section 6 Byte Offset		Section 6 Byte Size	App Name Length	Application Name (x bytes)

3101 Header

FIG. 31A

Section 1  
Offset

Diagram illustrating the structure of Section 1 (x bytes) and its components:

Flags	NumChildren		Directory Name Length	Directory Name (x bytes)	
Flags	File version		File Name Length	Data Length	File Name (x bytes)
File Name (x bytes) cont.			Data Content (x bytes)		

3102 File

FIG. 31B

Section 2  
Offset

Diagram illustrating the structure of Section 2 (x bytes) and its components:

Exist File	Value Type				Key Name Length	Key Name (x bytes)	Value Data (x bytes)
Key Flag	Number Children	Value Type		Value Name Length	Value Name (x bytes)		Value Data (x bytes)
Key Flag	Value Type	Value Name Length	Value Name (x bytes)		Value Data (x bytes)		

3103 Add/  
Remove Reg

FIG. 31C

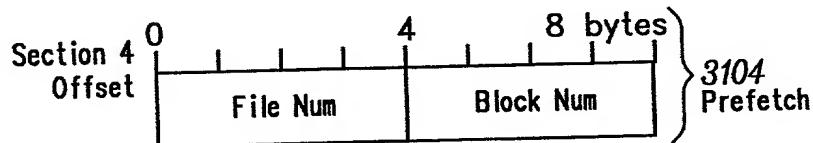


FIG. 31D

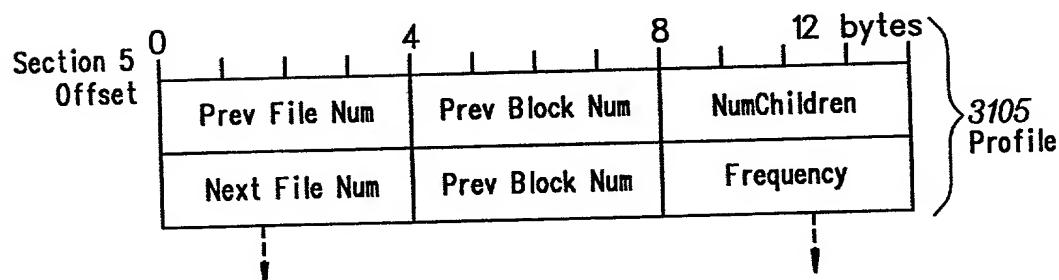


FIG. 31E

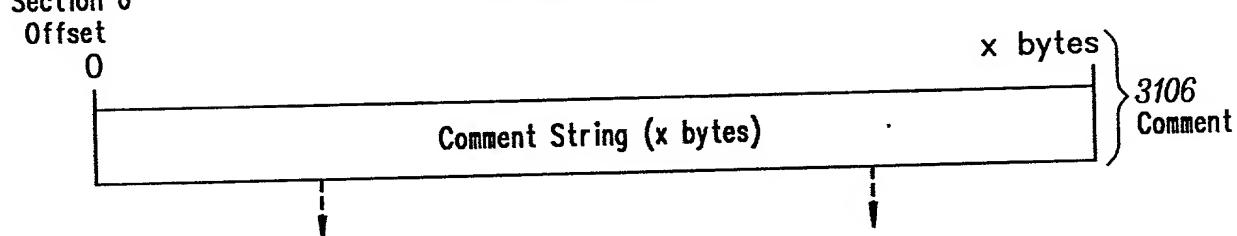


FIG. 31F

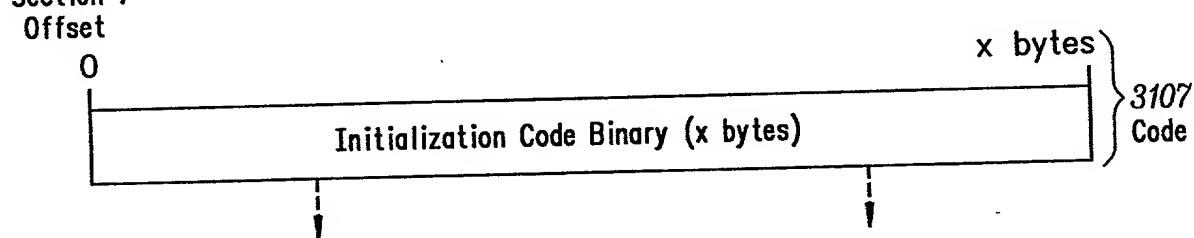


FIG. 31G

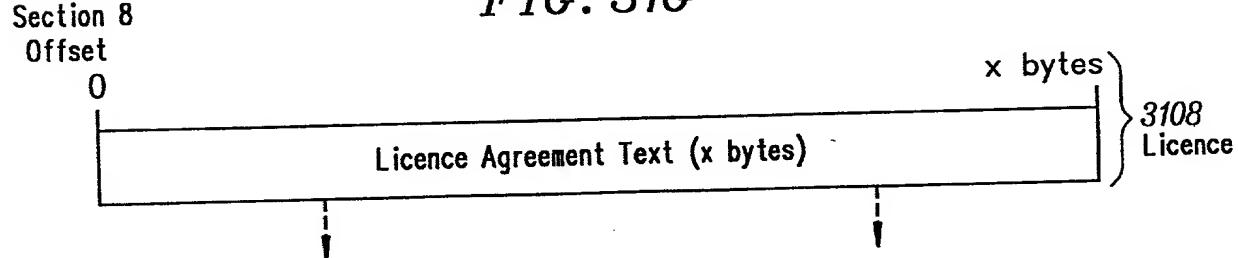


FIG. 31H

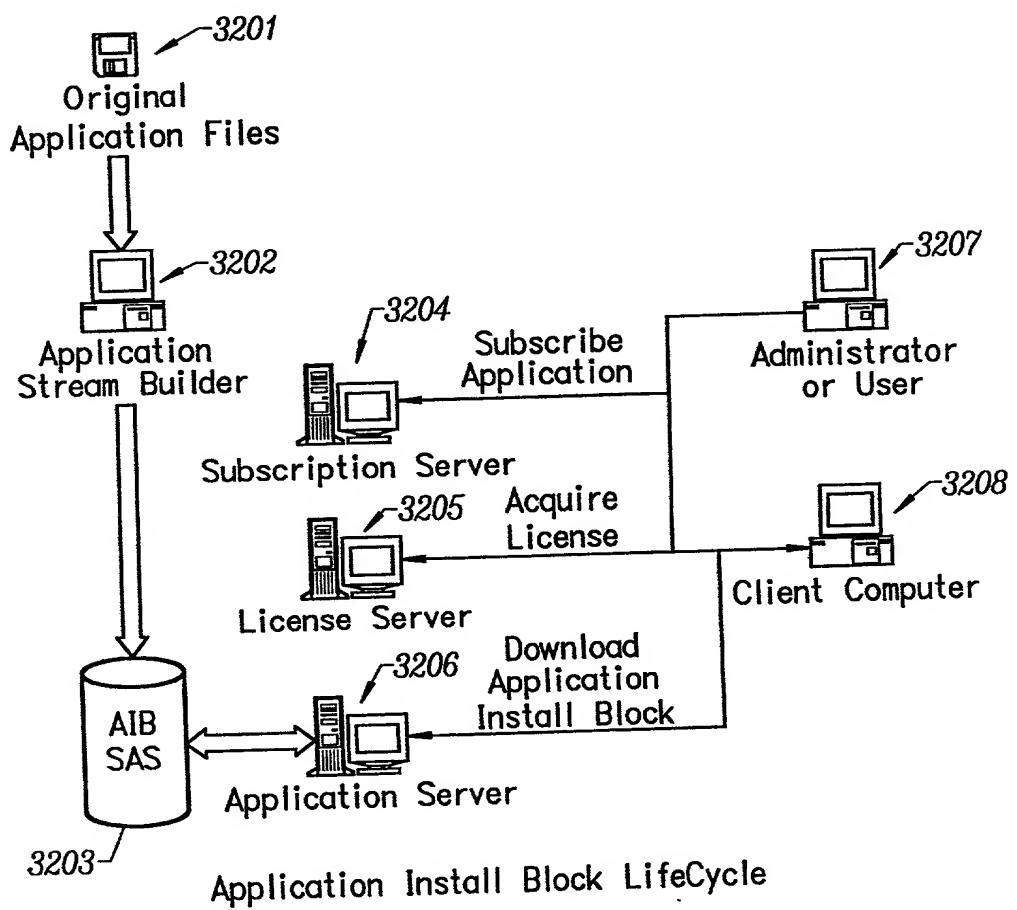


FIG. 32

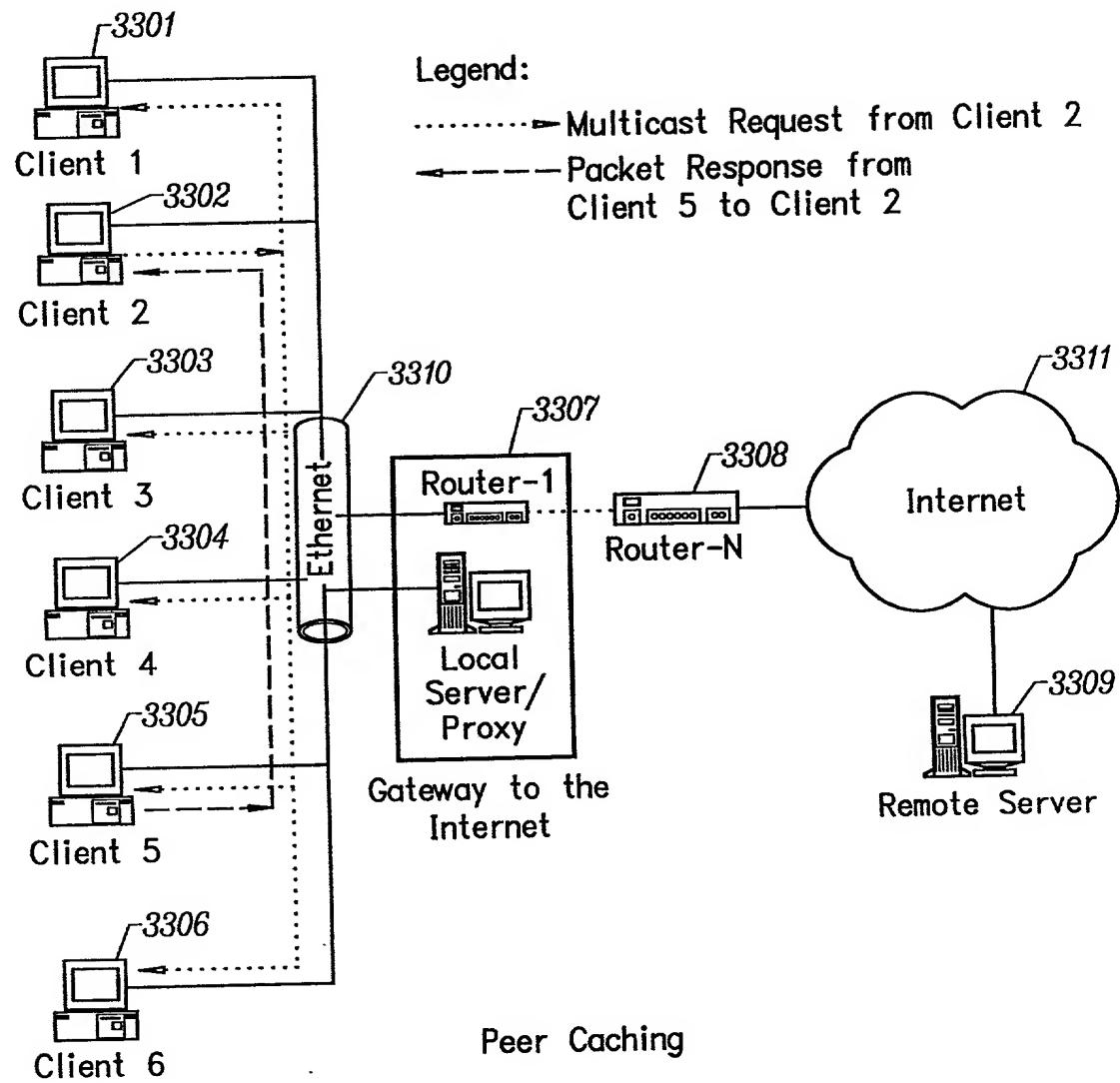


FIG. 33

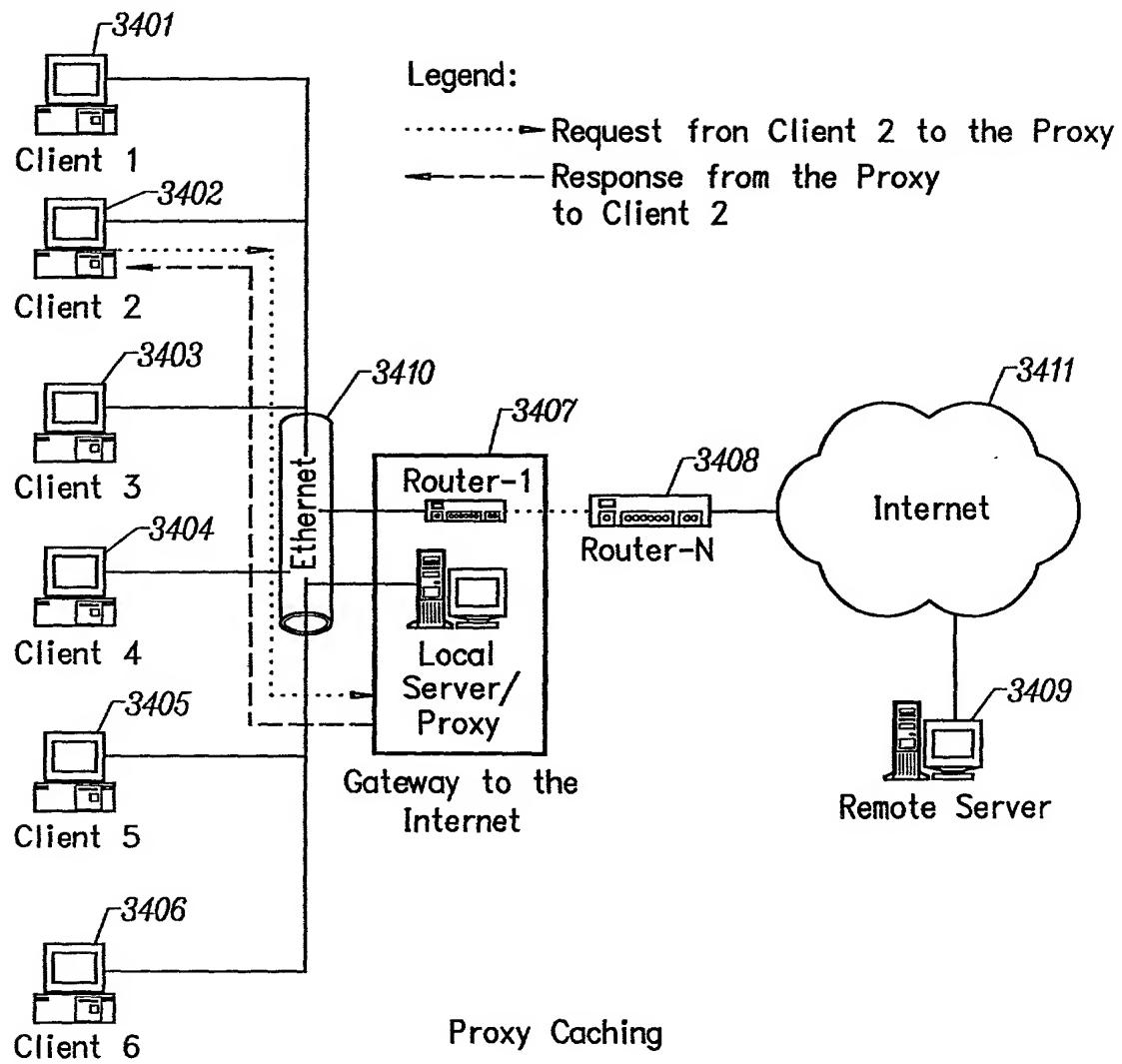


FIG. 34

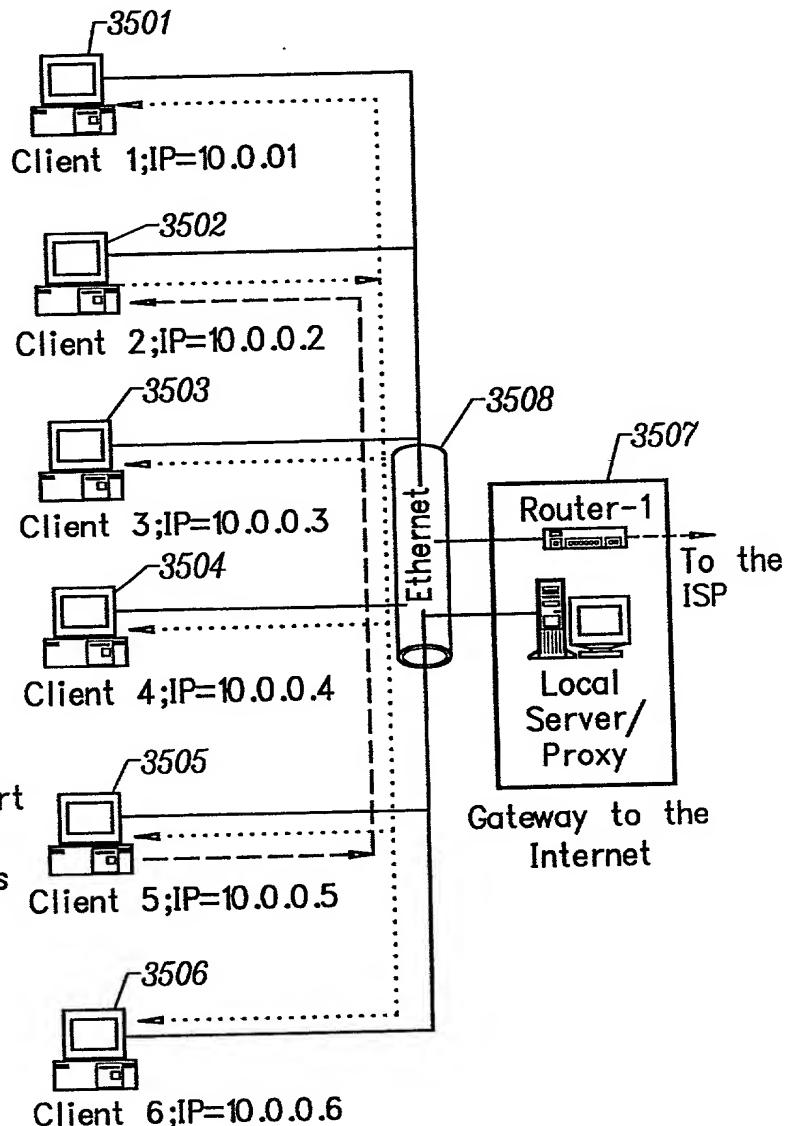
## Legend:

.....→ Multicast Packet from Client 2

—→ Diagram packet from Client 5 to Client 2

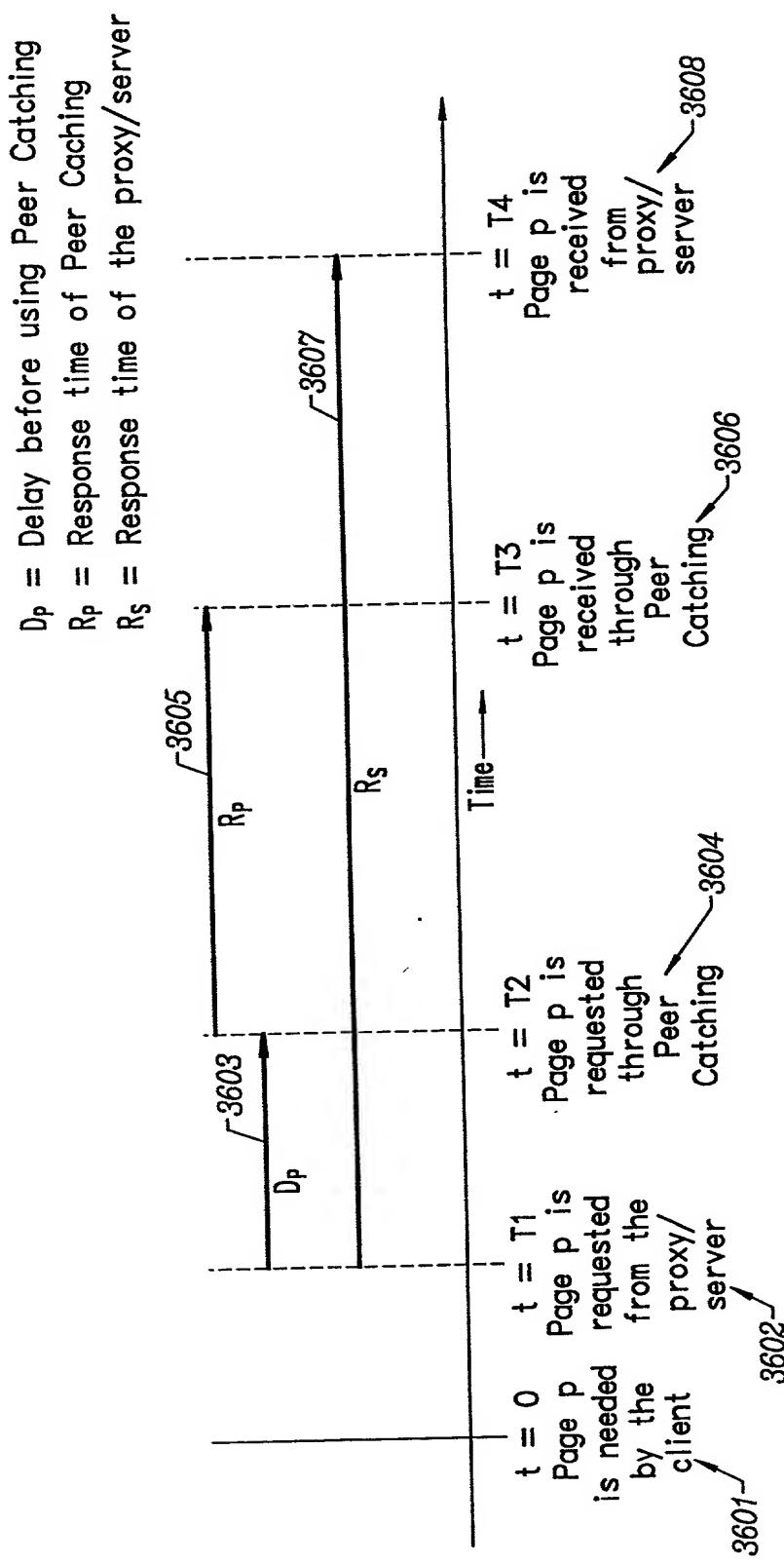
**Client 2:**  
 Creates the request as a multicast packet;  
 Sends the packet to the group 239.0.01 port 2001 from port 3002; Waits at port 3002 for a response;

**Client 5:**  
 Joins the multicast group 239.0.0.1 at port 2001; When a packet is received, processes the request; Sends the response packet to 10.0.0.2:3002;



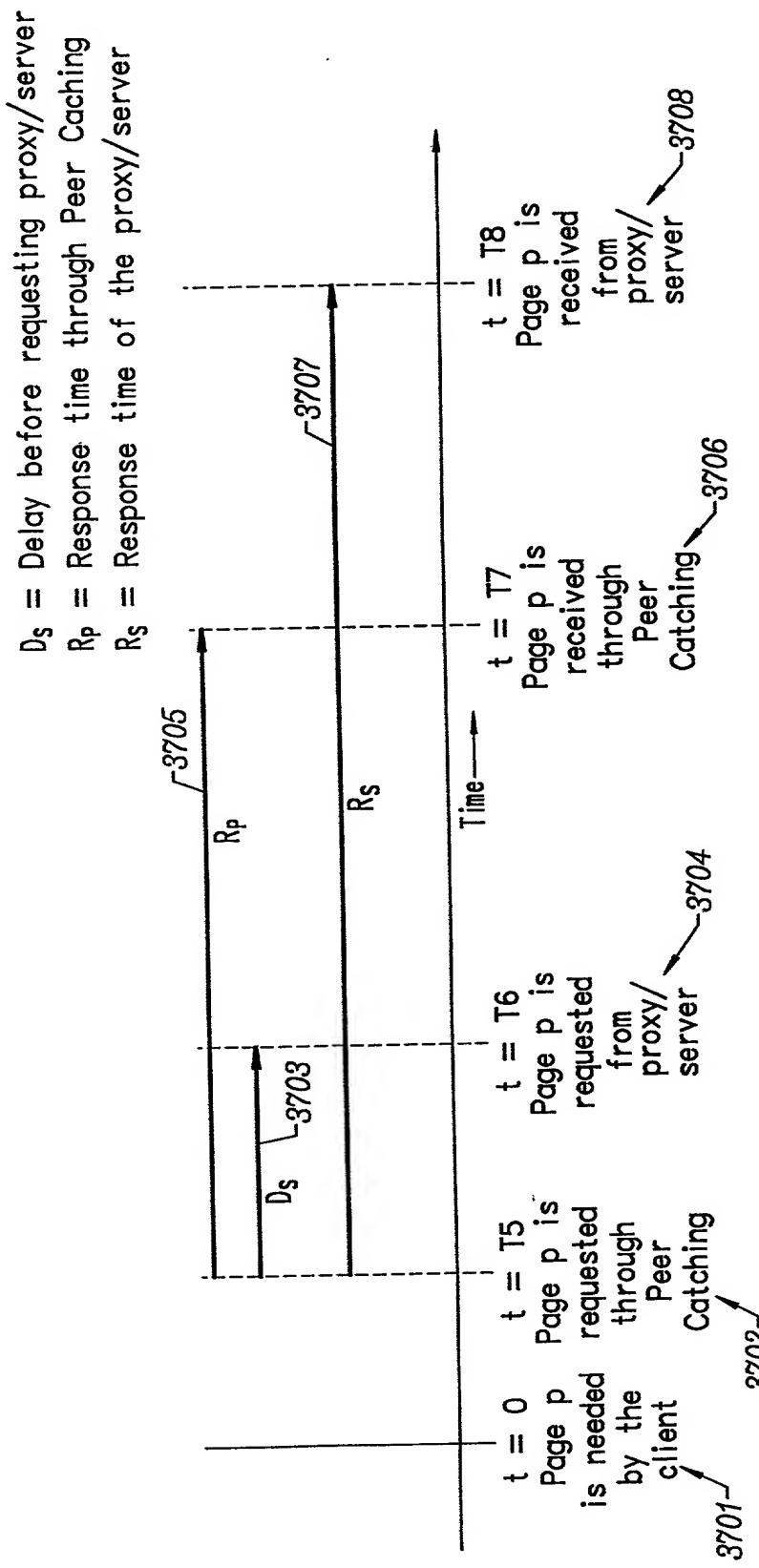
Milticast within a LAN  
 and Packet Protocol

*FIG. 35*



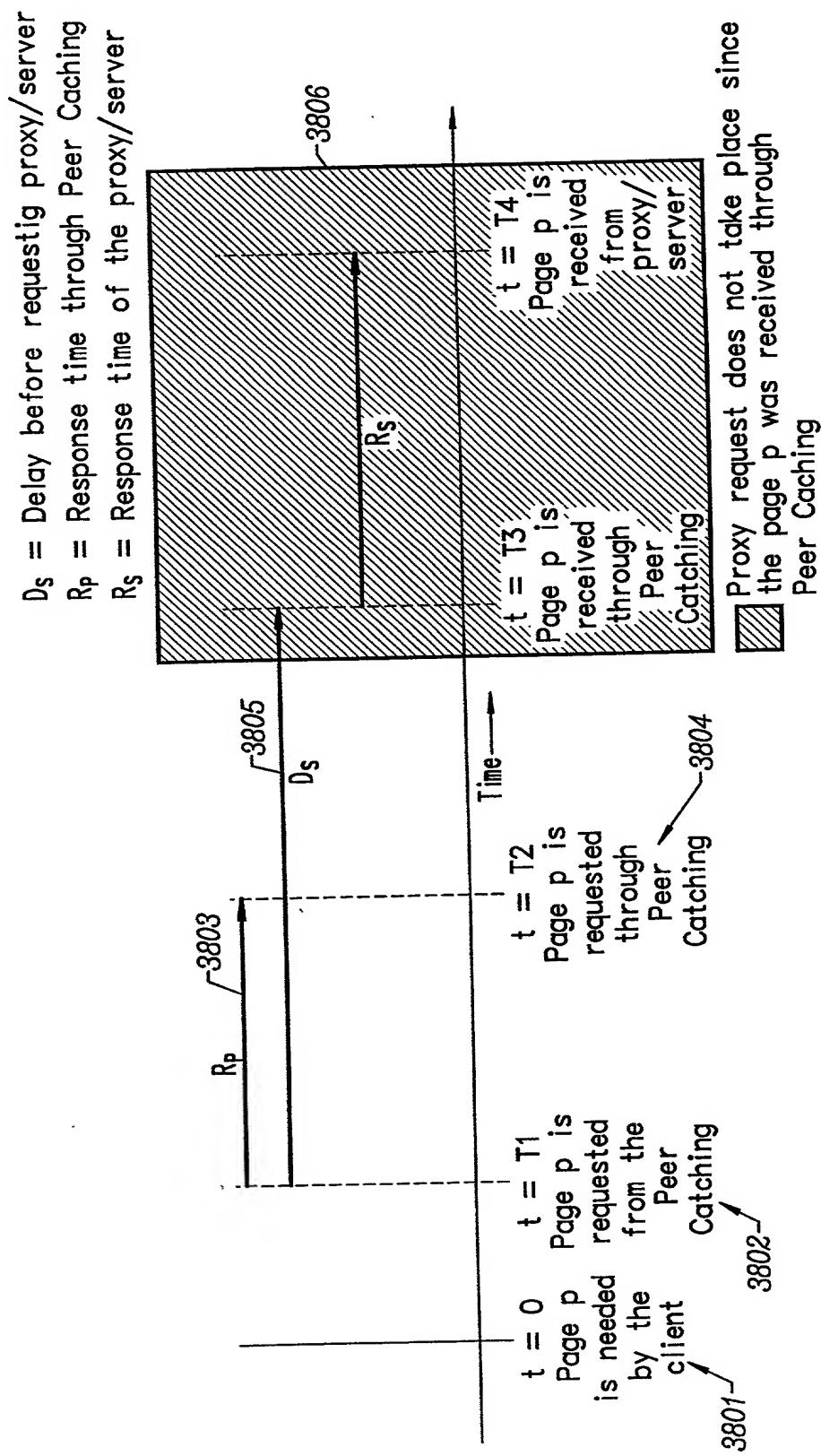
Concurrent Requesting - Proxy First

FIG. 36



Concurrent Requesting - Peer Catching First

FIG. 37

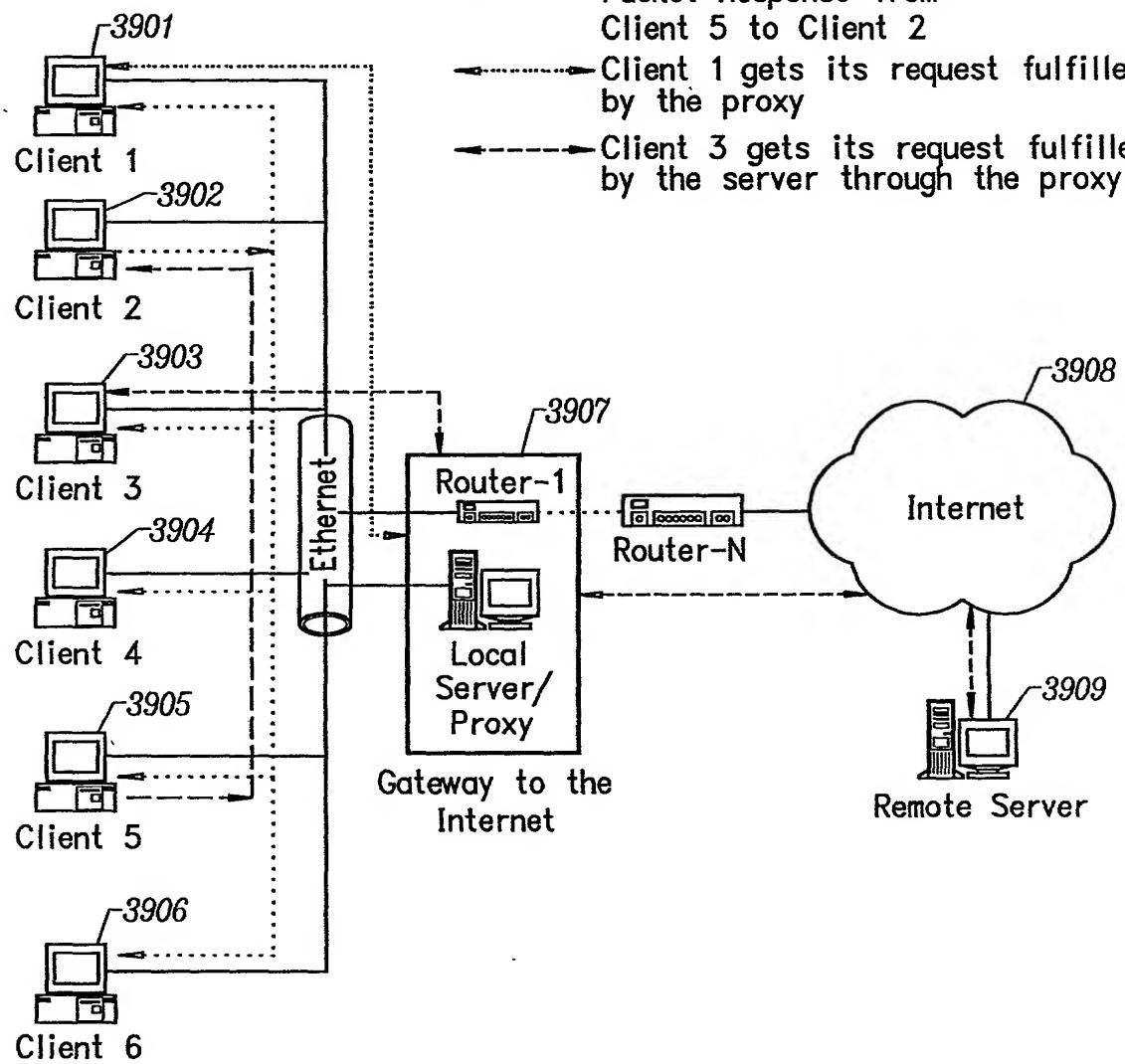


Concurrent Requesting - Peer Caching Only

FIG. 38

## Legend:

- > Multicast Request from Client 2
- > Packet Response from Client 5 to Client 2
- > Client 1 gets its request fulfilled by the proxy
- > Client 3 gets its request fulfilled by the server through the proxy



Client-Server System with Peer  
and Proxy Caching

FIG. 39

## Preventing Piracy of Remotely Served, Locally Executed Applications

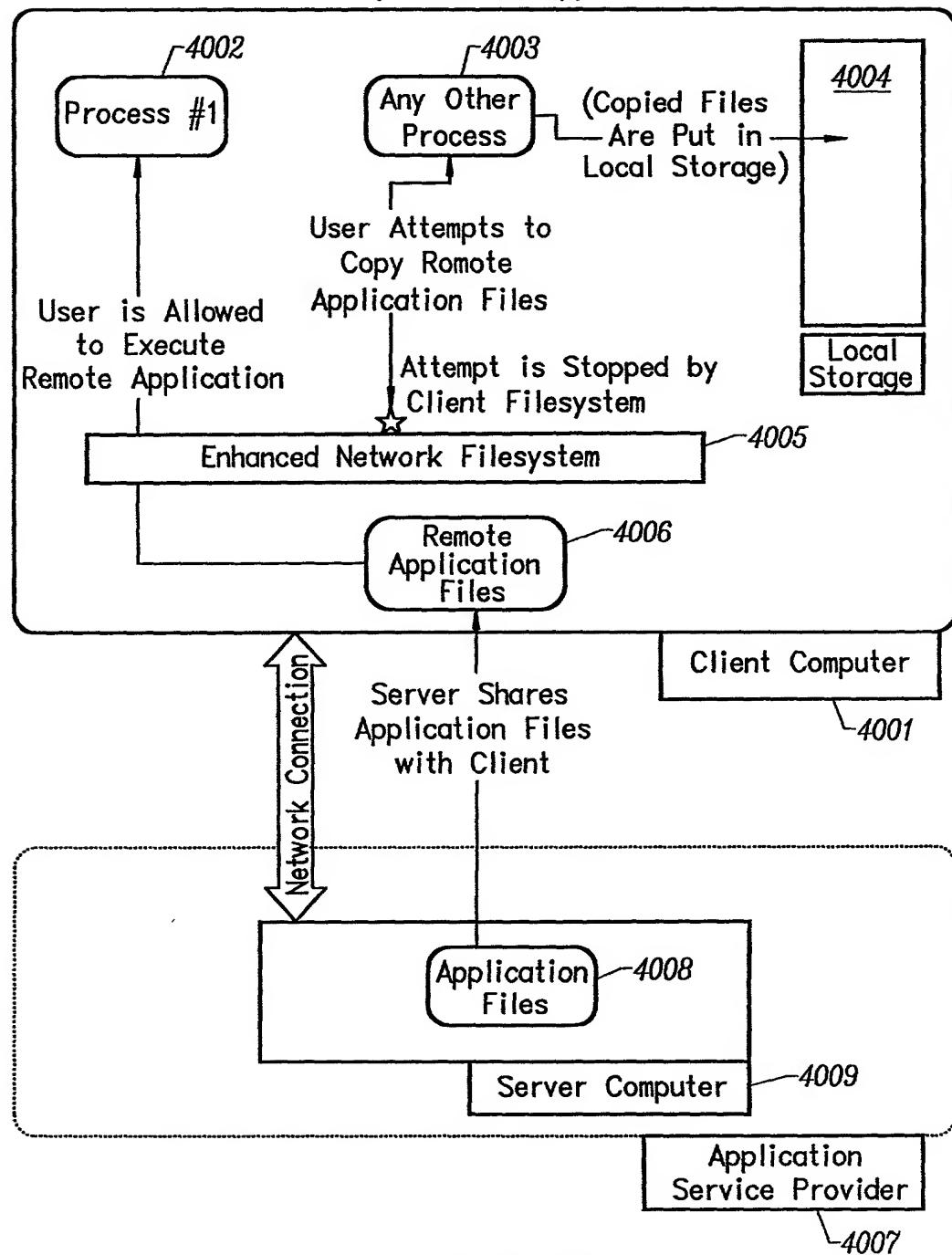


FIG. 40

## Filtering of Accesses to Remote Application Files

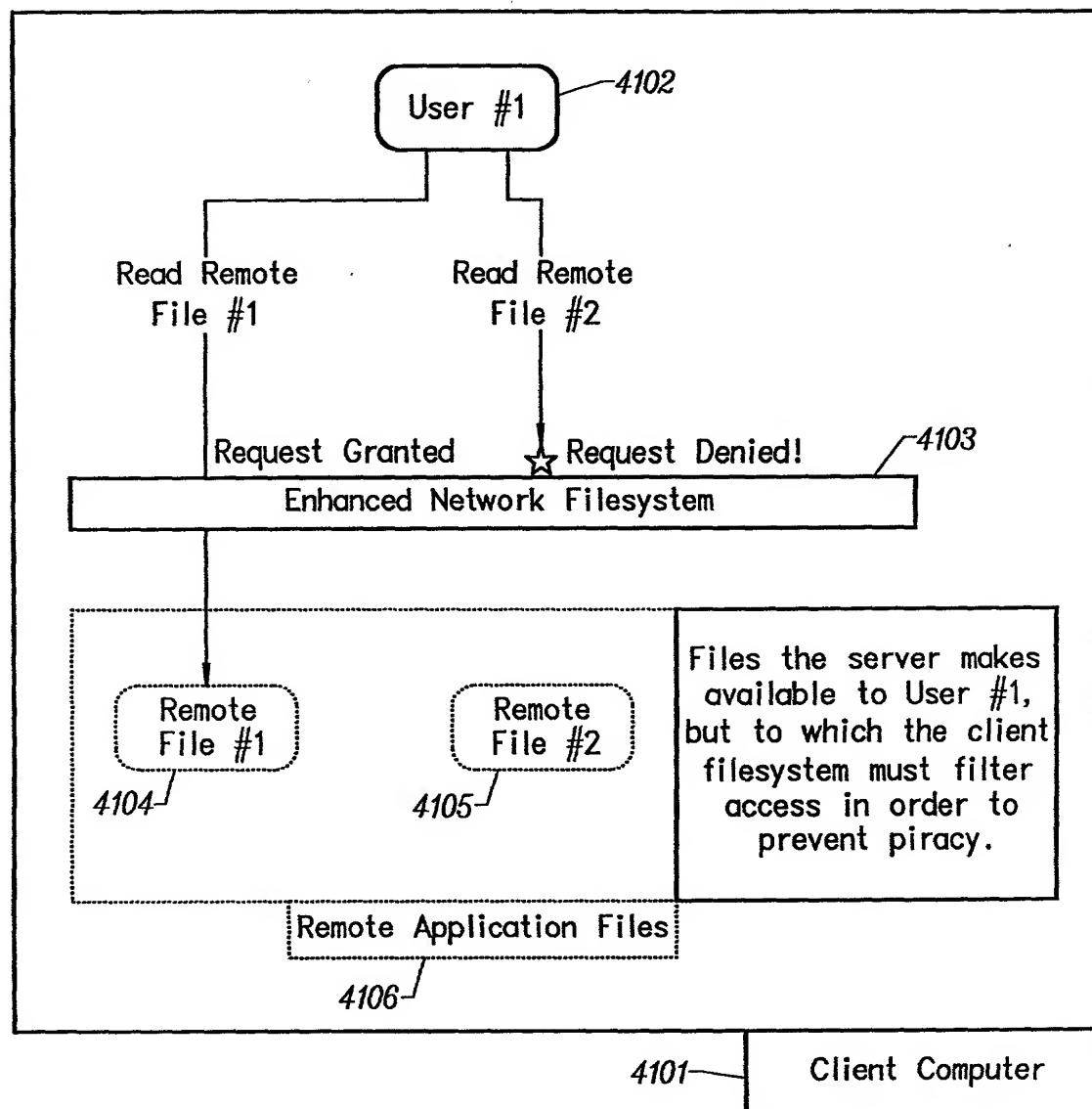


FIG. 41

Filtering of Accesses to Remote Files  
Based on Process Code Location

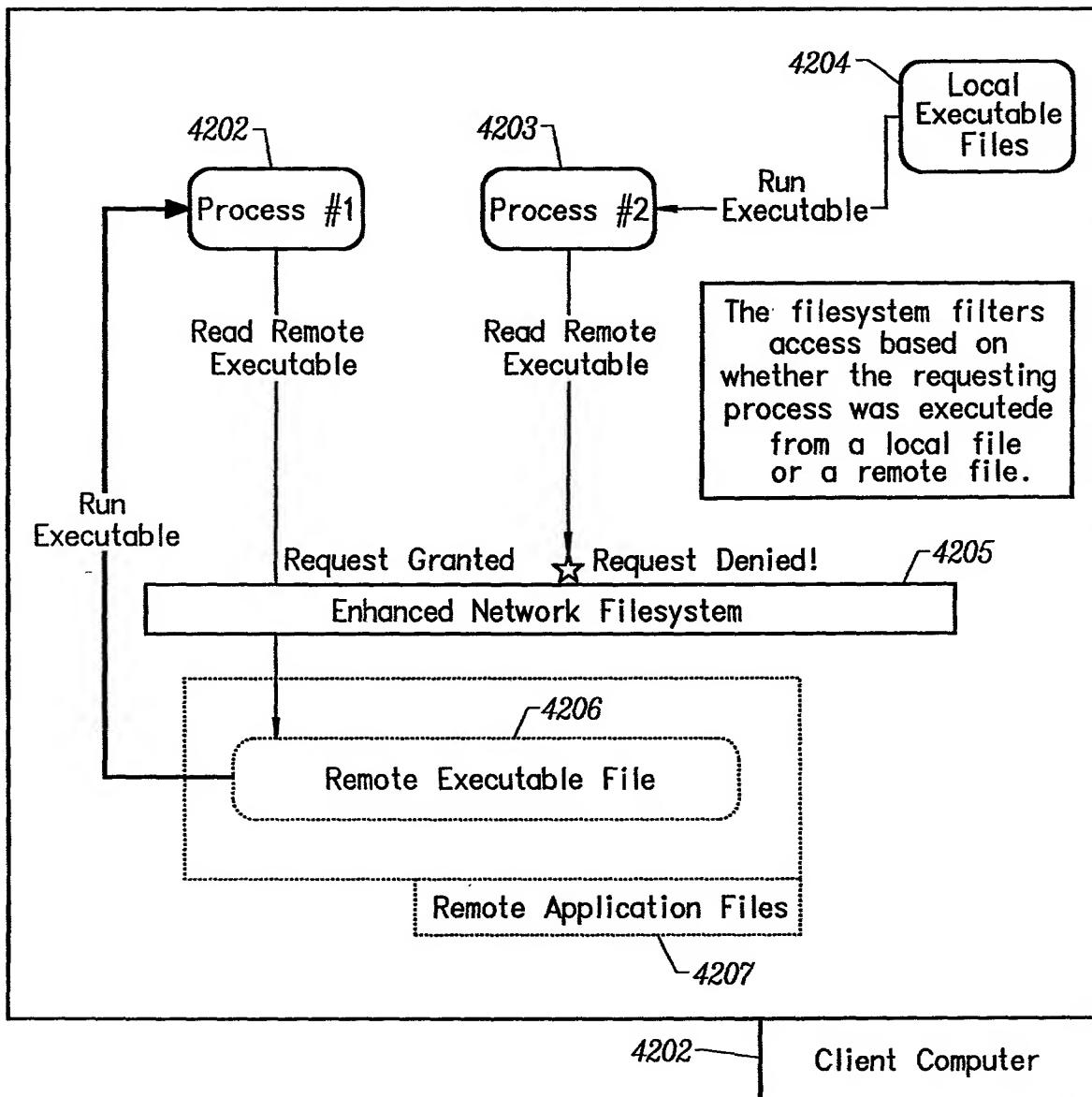


FIG. 42

Filtering of Accesses to Remote Files  
Based on Targeted File Section

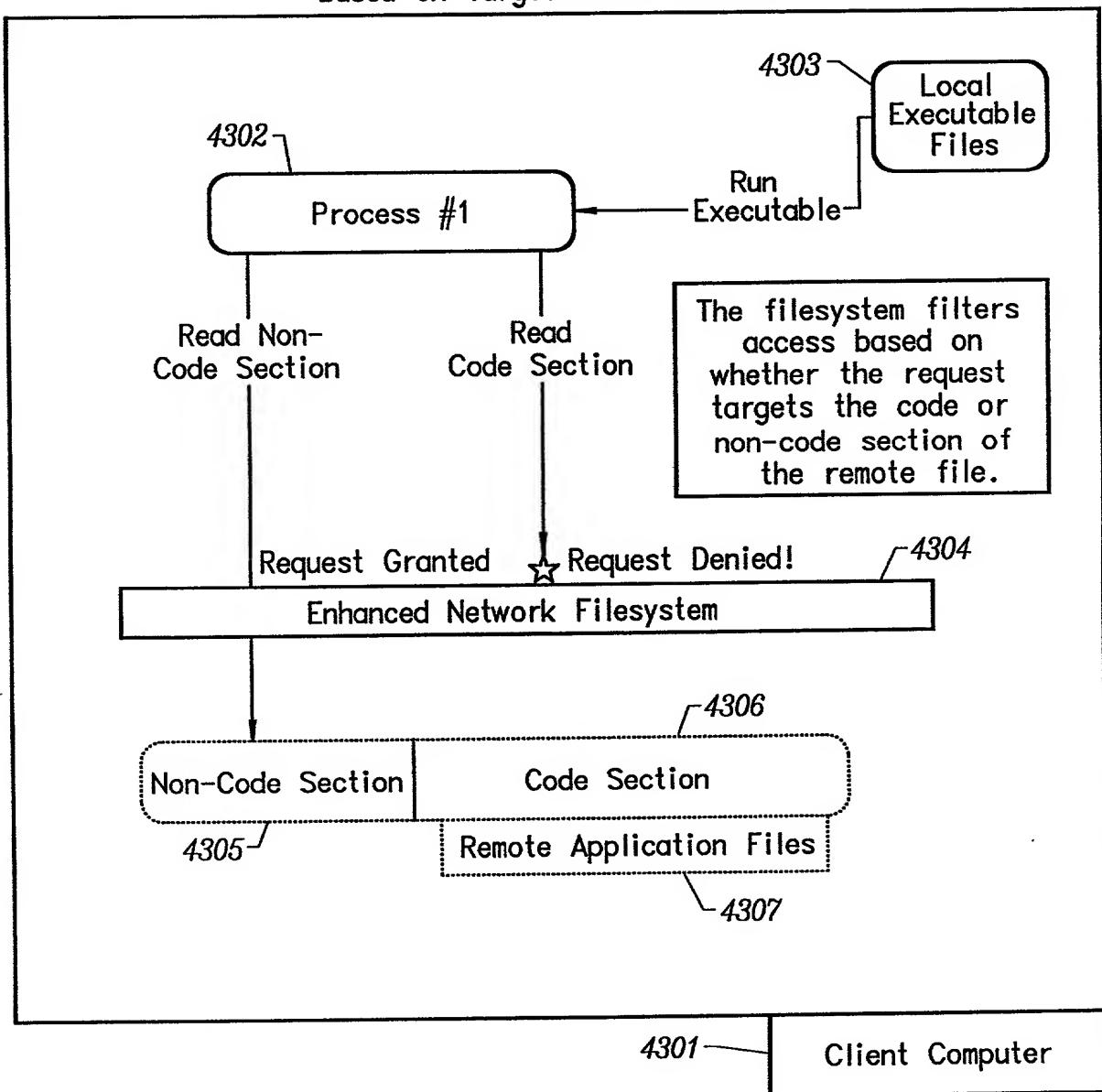


FIG. 43

## Filtering of Accesses to Remote Files Based on Surmised Purpose

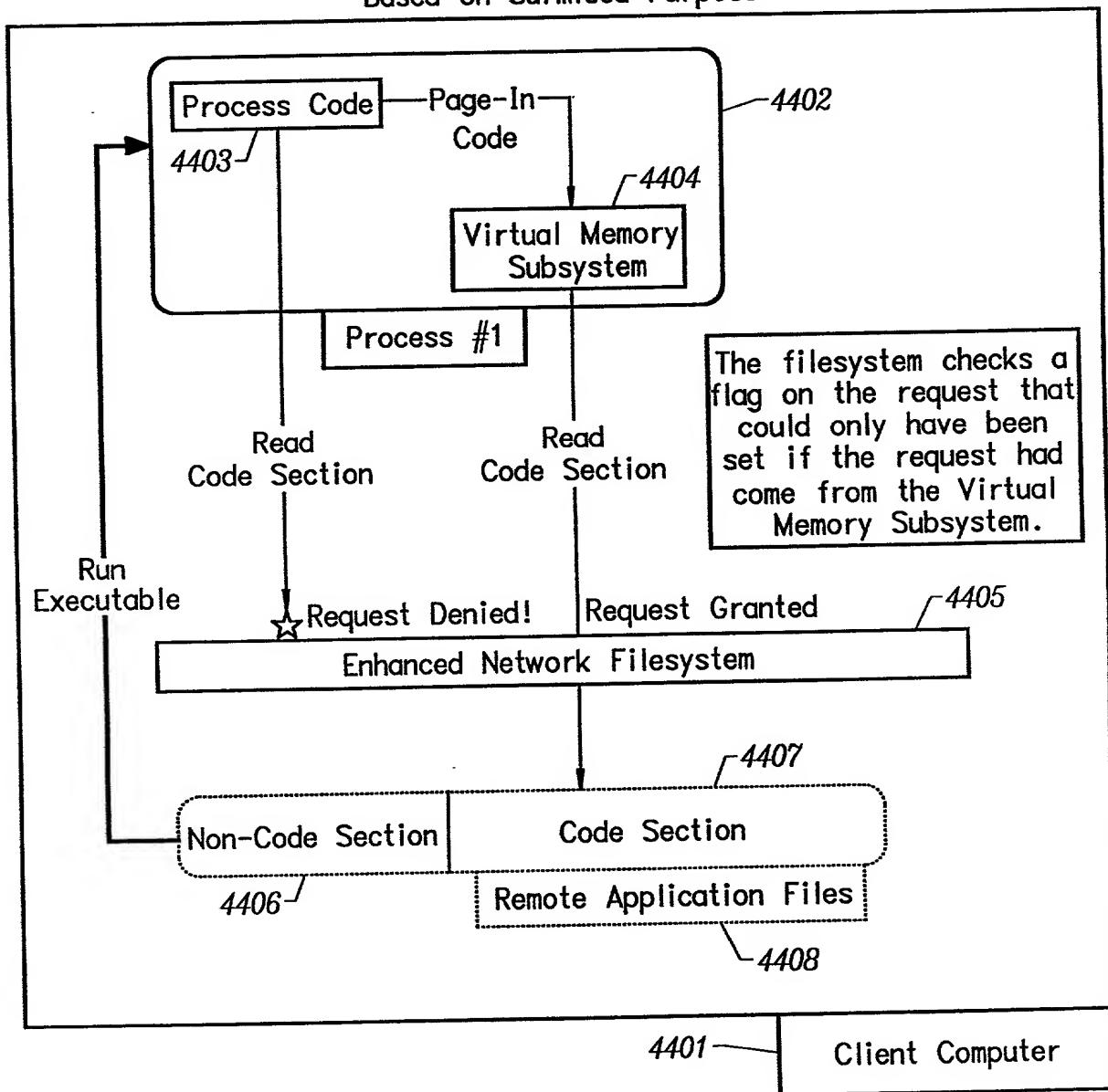


FIG. 44

Filtering of Accesses to Remote Files  
Based on Past Access History

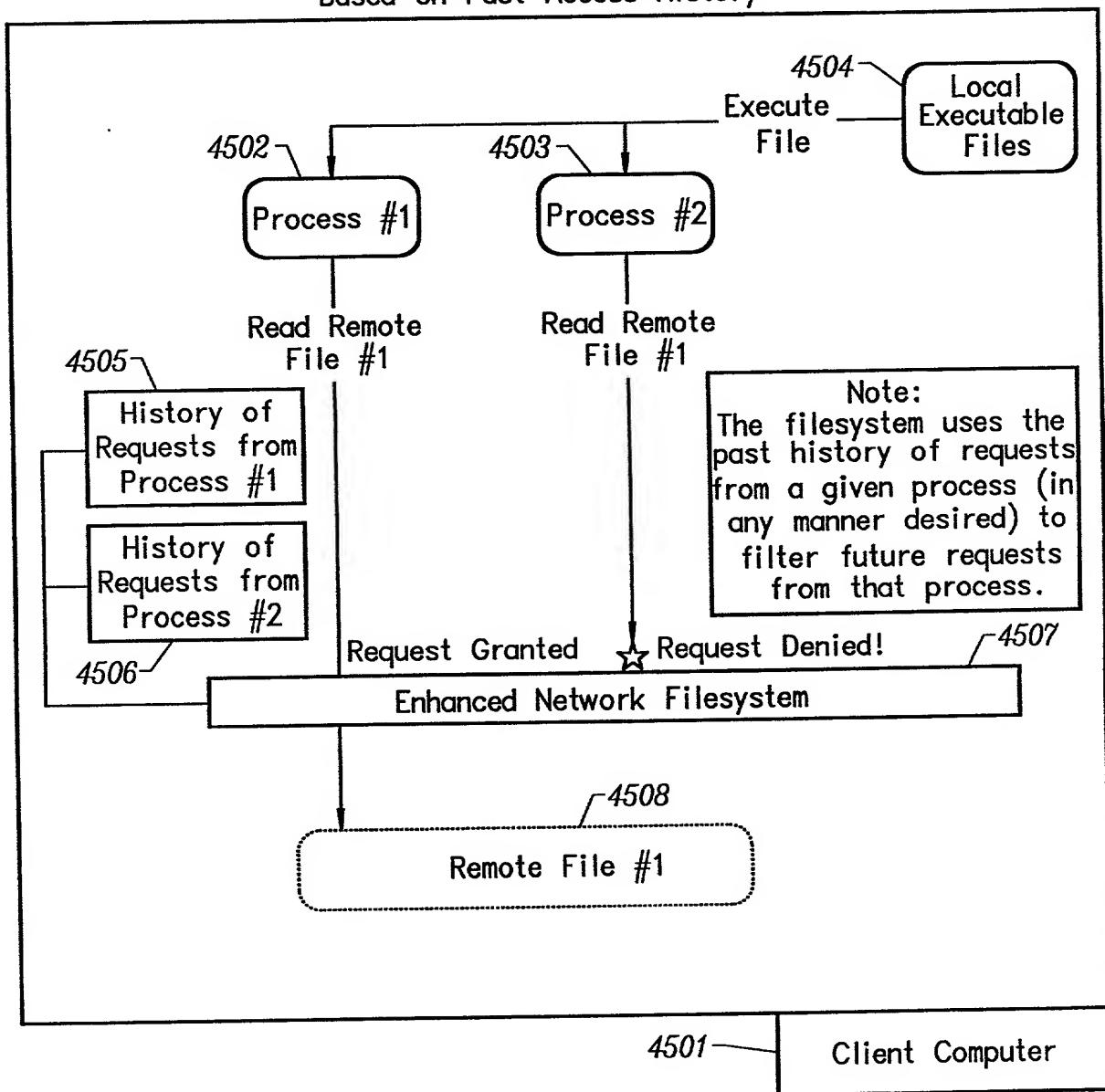


FIG. 45